


UNIVERSITY OF ILLINOIS
ANNUAL REGISTER
1916-1917



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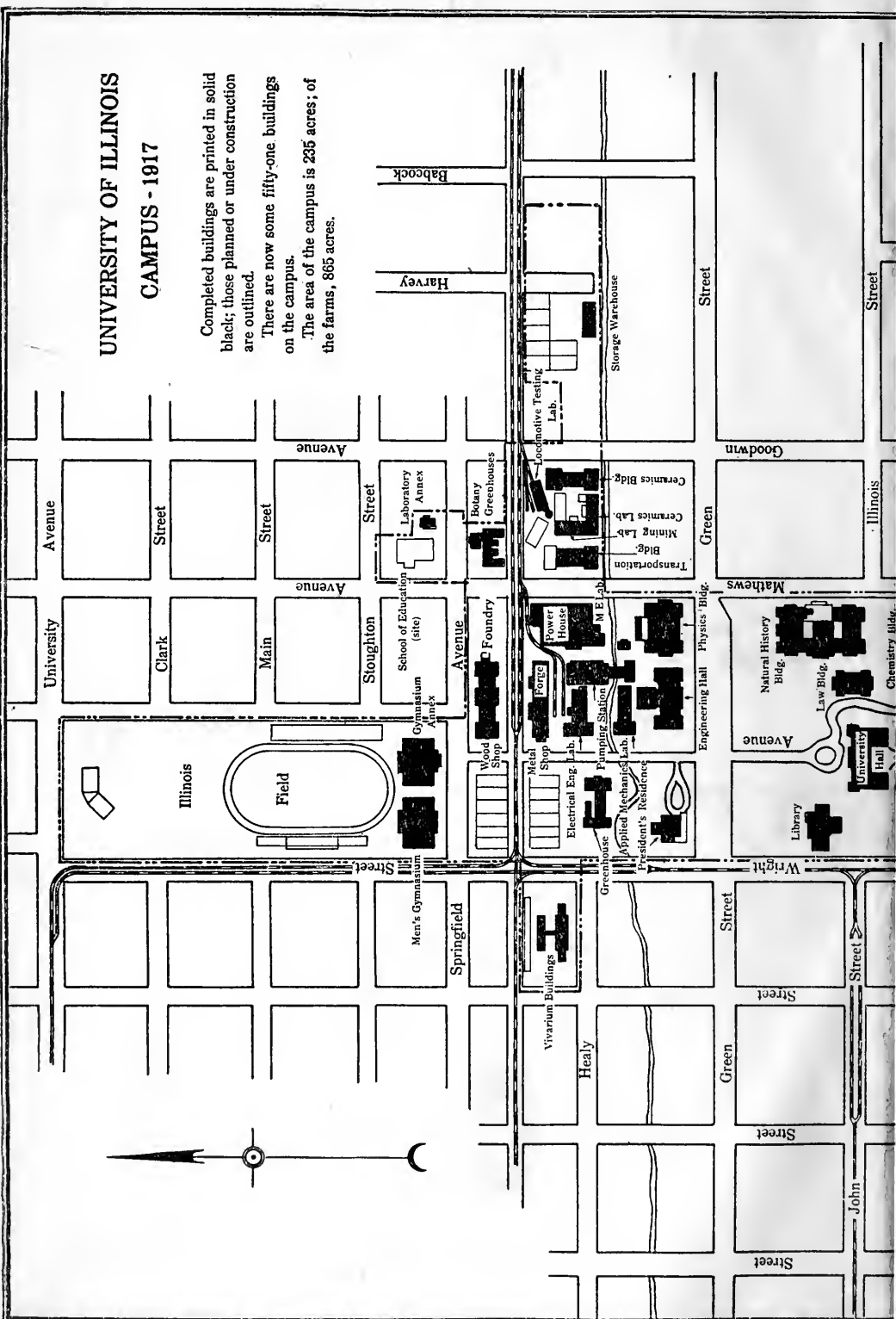
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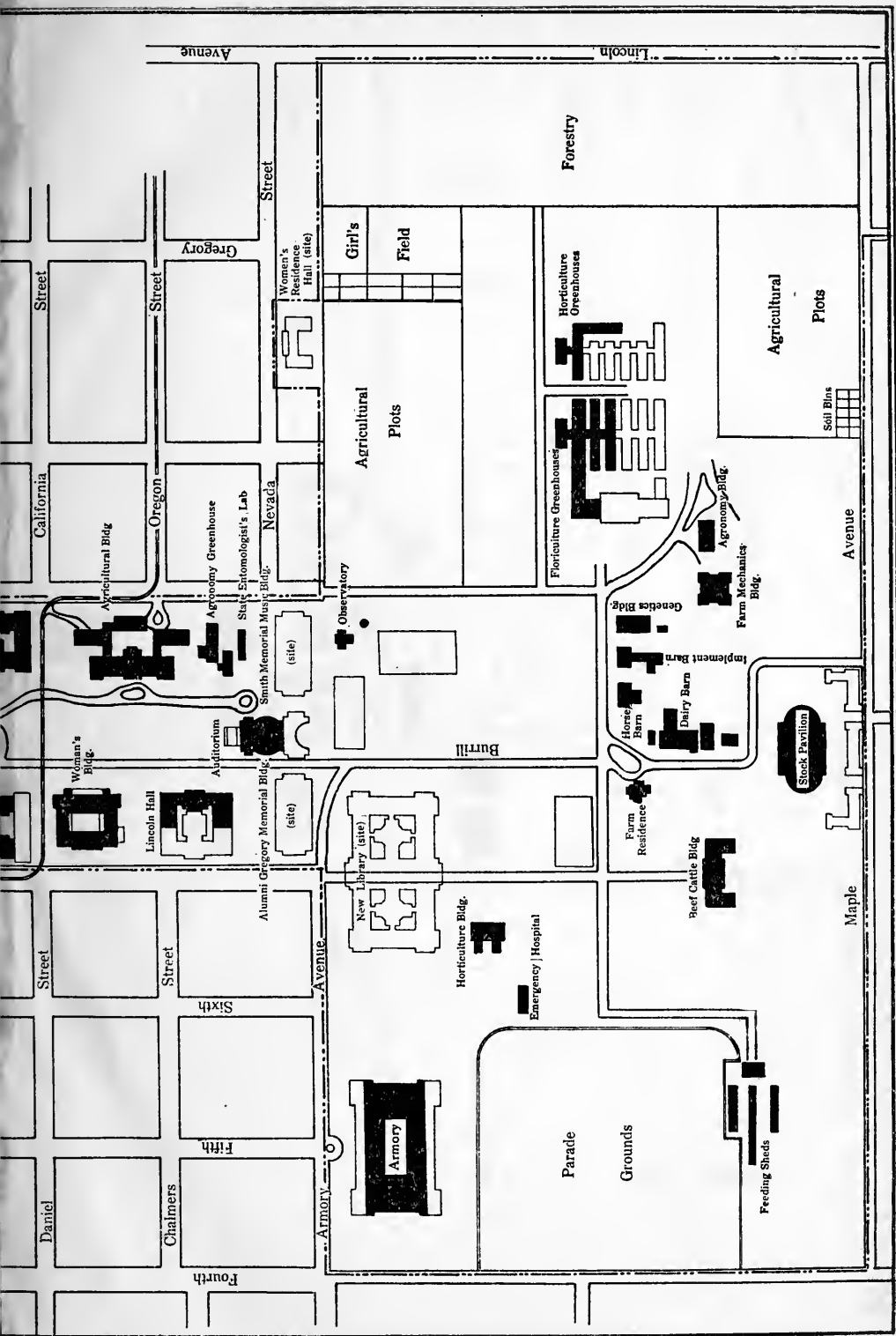
UNIVERSITY OF ILLINOIS CAMPUS - 1917

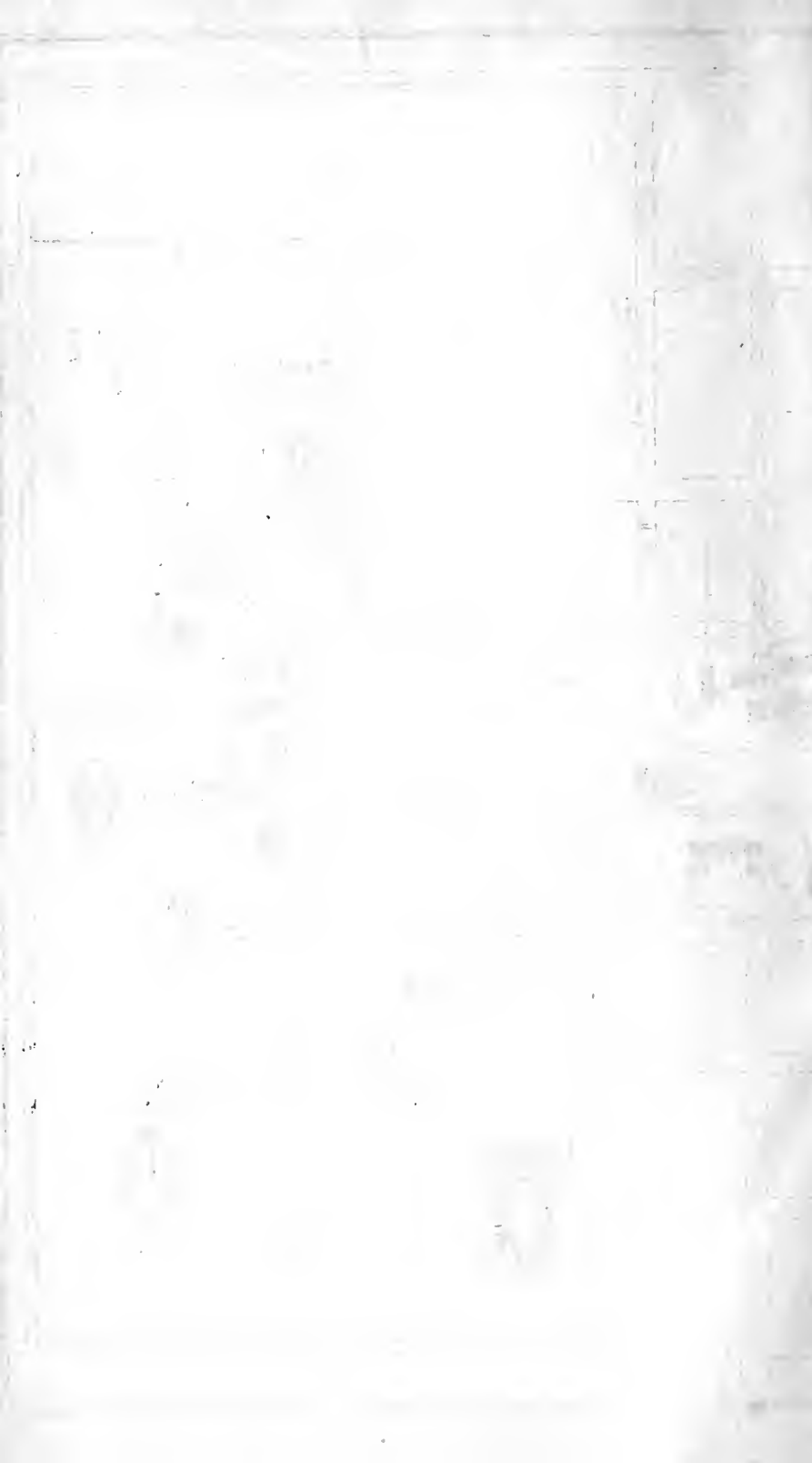
Completed buildings are printed in solid black; those planned or under construction are outlined.

There are now some fifty-one buildings on the campus.

The area of the campus is 235 acres; of the farms, 865 acres.







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Learning and Labor

University of Illinois

ANNUAL REGISTER

1916-1917

General Announcements, 1917-1918

Faculty and Courses, 1916-1917

Students, 1916-1917

URBANA
PUBLISHED BY THE UNIVERSITY
FEBRUARY, 1917

ILLINOIS PRINTING COMPANY
DANVILLE, ILL.



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 CONTENTS

UNIVERSITY CALENDAR.....	5
BOARD OF TRUSTEES.....	11
ADVISORY BOARDS.....	13
OFFICERS OF ADMINISTRATION AND INSTRUCTION.....	15
PART I. GENERAL INFORMATION.....	43
Location.....	45
Equipment.....	51
Administration.....	63
Admission.....	66
Graduation: First Degrees.....	85
Lectures and Other General Exercises.....	91
Associations, Societies, and Clubs.....	100
Undergraduate Scholarships.....	104
Fees and Expenses.....	110
PART II. THE COLLEGES AND SCHOOLS.....	115
The College of Liberal Arts and Sciences.....	117
The College of Commerce and Business Administration.....	130
The College of Engineering.....	144
The College of Agriculture.....	162
The Graduate School.....	172
The Library School.....	185
The School of Music.....	188
The School of Education.....	191
The School of Railway Engineering and Administration.....	194
Military Science.....	195
Physical Training.....	196
The One-year Medical College (Urbana).....	197
The Summer Session.....	198
The College of Law.....	203
The College of Medicine.....	207
The College of Dentistry.....	232
The School of Pharmacy.....	241
PART III. GENERAL DESCRIPTION OF COURSES.....	245
PART IV. UNIVERSITY EXTENSION.....	399
PART V. EXPERIMENT STATIONS AND OTHER SCIENTIFIC BUREAUS.....	407
PART VI. LIST OF STUDENTS, DEGREES, ETC.....	
Students, 1916-17.....	421
Degrees Conferred, 1916.....	514
Fellows and Scholars.....	529
Honors.....	531
Directory of Alumni Associations.....	542
INDEXES.....	545

CALENDAR 1916, 1917, 1918

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THE UNIVERSITY CALENDAR

1916-1917-1918

FIRST SEMESTER, 1916-1917

Sept. 11-15, Mon. to Fri.	Entrance examinations
Sept. 12, Tues.	Quarterly meeting of the Board of Trustees
Sept. 13, Wed.	Scholarship examinations for second nominees
SEPT. 18, 19, MON., TUES.	REGISTRATION DAYS
Sept. 18, Mon.	Registration, School of Pharmacy
7 p. m.	Examination for exemption from Rhetoric 1
Sept. 20, Wed.	Instruction begun
4 p. m.	Freshman convocation
Sept. 20-22, Wed. to Fri.	Entrance examinations, departments in Chicago
Sept. 23, Sat.	Assignments in the Brigade posted (Engineering Building, first door, west end)
Sept. 25, Mon.	Military drill (Mil. 2) and Hygiene lectures (P. T. 1a and 9) begun
Sept. 25-28, Mon. to Thurs.	Registration, School of Pharmacy
Sept. 28, Thurs.	Examinations for removal of conditions, College of Medicine
Sept. 30, Sat., 5 p. m.	Registration, College of Medicine
Oct. 2, Mon.	Latest day for rebates in full and for change of study-list without fee
Oct. 4, Wed.	Senate meeting
Oct. 5, Thurs.	Registration, College of Dentistry
Oct. 14, Sat.	Registration closes, College of Medicine
Oct. 16, Mon.	Registration closes, College of Dentistry
Oct. 20, Fri., 5 p. m.	Assignment of vacant scholarships in agriculture and household science
Nov. 6, Mon., 5 p. m.	Latest day for removal of "incompletes"
Nov. 17-19, Fri. to Sun.	Russian Symphony Orchestra
Nov. 18, Sat., 5 p. m.	Latest day for announcement of subjects of all undergraduate and graduate theses
Nov. 23-25, Thurs. to Sat.	Alumni home coming
Nov. 27-29, Mon. to Wed.	Latest day for rebates of one-half fees
Nov. 30, Thurs.	High school conference
Dec. 3, Sun.	Engineering inspection trips
Dec. 4, Mon.	Household science inspection trip
Dec. 8, Fri.	Thanksgiving day
Dec. 12, Tues.	Illinois day
Dec. 19, Tues., 8 p. m.	Senate meeting
	St. Louis Symphony Orchestra
	Junior promenade
	Quarterly meeting of the Board of Trustees
	Christmas concert

Dec. 21, Thurs., 11 a. m.	Holiday recess begun
Dec. 30, Sat., 5 p. m.	Latest day for submission of outlines of theses by candidates for professional degrees in engineering
Jan. 3, Wed., 1 p. m.	Instruction resumed
Jan. 8-20	Short courses in ceramic engineering and highway engineering
Jan. 15-27	Short courses in agriculture and household science
Jan. 22, Mon.	Minneapolis Symphony Orchestra
Jan. 24-27, Wed. to Sat.	Entrance examinations
Jan. 25, Thurs.	Semester examinations begun
Jan. 29-Feb. 2, Mon. to Fri.	Semester examinations, College of Dentistry
	Short course in business
Jan. 29-Feb. 3, Mon. to Sat.	Semester examinations, College of Medicine
Feb. 1, Thursday	Semester examinations ended
Feb. 3, Sat.	First Semester ends, School of Pharmacy

SECOND SEMESTER, 1916-1917

FEB. 5, 6, MON., TUES.	REGISTRATION DAYS
Feb. 5, Mon.	Registration, School of Pharmacy
	Senate meeting
Feb. 5-10, Mon. to Sat.	Library inspection trip
Feb. 7, Wed., 8 a. m.	Instruction begun
Feb. 12, Mon.	Lincoln day
Feb. 17, Sat., 5 p. m.	Latest day for rebates in full and for change of study-list without fee
Feb. 22, Thurs.	Washington day
Feb. 23, Fri.	Military ball
March 2, Fri.	University day
	Annual band concert
March 9, Fri., 5 p. m.	Latest day for removal of "incompletes" and for removal by seniors of first semester failures
March 13, Tues.	Annual meeting of the Board of Trustees
March 26, Mon.	New York Symphony Orchestra
March 31, Sat., 5 p. m.	Latest day for filing of completed theses by candidates for professional degrees in engineering
April 2, Mon.	Senate meeting
April 5, Thurs., 11 a. m.	Easter recess begun
April 5-11	Geology inspection trip
	Animal husbandry inspection trip
April 7, Sat., 5 p. m.	Latest day for rebates of one-half fees
April 10, Tues., 12 m.	Instruction resumed
May 12, Sat., 12 m.	Latest day for receipt by the Dean of the Graduate School of certified copies of doctors' theses
May, between 15 and 31,	Hazelton prize drill
	Annual inspection
	Company competitive drill
May 17-19, Thurs. to Sat.	Public school art exhibit
May 18, Fri., evening	Interscholastic oratorical contest
May 19, Sat.	Interscholastic athletic meet
May 30, Wed.	Military day

May 31, Thurs., 8 a. m.	Final examinations begun
June 1, Fri., 12 m.	Latest day for acceptance of undergraduate theses
June 2, Sat., 12 m.	Latest day for receipt by the Dean of the Graduate School of certified copies of masters' theses
June 4, Mon.	Senate meeting
June 6, Wed.	Final examinations ended, School of Pharmacy
June 7, Thurs.	Final examinations ended
June 10, Sun.	Baccalaureate address
June 11, Mon.	Class day
	Senior ball
June 12, Tues.	Alumni day
	Quarterly meeting of the Board of Trustees
JUNE 13, WED.	FORTY-SIXTH ANNUAL COMMENCEMENT

SUMMER SESSION, 1917

JUNE 18, MON.	REGISTRATION DAY
June 19, Tues.	Instruction begun
July 7, 14, 21, 28, Sat.	Entrance examinations
Aug. 9, 10, Thurs., Fri.	Final examinations

FIRST SEMESTER, 1917-1918

Sept. 10-14, Mon. to Fri.	Entrance examinations
Sept. 11, Tues.	Quarterly meeting of the Board of Trustees
Sept. 12, Wed.	Scholarship examination for second nominees
SEPT. 17-18, MON., TUES.	REGISTRATION DAYS
Sept. 17, Mon.	Registration, School of Pharmacy
7 p. m.	Examination for exemption from Rhetoric 1
Sept. 19, Wed., 8 a. m.	Instruction begun
4 p. m.	Freshman convocation
Sept. 20-22, Thurs. to Sat.	Entrance examinations, departments in Chicago
Sept. 22, Sat.	Assignments in the Brigade posted (Engineering Building, first floor, west end)
Sept. 24, Mon.	Military Drill (Mil. 2) and Hygiene lectures (P. T. 1a and 9) begun
Sept. 26-29, Wed. to Sat.	Examinations for removal of conditions, College of Medicine
Sept. 27, Thurs.	Registration, College of Medicine
Sept. 29, Sat., 5 p. m.	Latest date for rebates in full and for change of study-list without fee
Oct. 1, Mon., 4 p. m.	Senate meeting
	Instruction begun, College of Medicine
Oct. 1-2, Mon., Tues.	Registration, College of Dentistry
Oct. 2, Tues.	Instruction begun, School of Pharmacy
Oct. 6, Sat.	Registration closes, College of Medicine
Oct. 12, Fri.	Assignment of vacant scholarships in agriculture and household science
Oct. 13, Sat.	Registration closes, College of Dentistry
Oct. 19, Fri.	Latest date for removal of "incompletes"
Oct. 28-30, Fri. to Sun.	Alumni home coming
Nov. 5, Mon., 5 p. m.	Latest day for announcement of subjects for all undergraduate and graduate theses

Nov. 8-10, Thurs. to Sat.		Engineering inspection trips
Nov. 17, Sat.		Latest date for rebates of one-half fees
Nov. 20-28		Mining inspection trip
Nov. 22-24, Thurs. to Sat.		High school conference
		Household science inspection trip
Nov. 29, Thurs.		Thanksgiving day
Dec. 3, Mon.		Illinois day
		Senate meeting
Dec. 7, Fri., 8 p. m.		Iowa-Minnesota-Illinois debates
		Junior promenade
Dec. 11, Tues.		Quarterly meeting of the Board of Trustees
	8 p. m.	Christmas concert
Dec. 15, Sat.		Holiday recess begun, School of Pharmacy
Dec. 21, Fri.,	11 a. m.	Holiday recess begun
	5 p. m.	Holiday recess begun, College of Dentistry
	6 p. m.	Holiday recess begun, College of Medicine
Dec. 31, Mon.,	5 p. m.	Latest day for submission of outlines of theses by candidates for professional degrees in engineering
Jan. 3, Thurs.,	8:30 a. m.	Instruction resumed, College of Dentistry
Jan. 3, Thurs.,	1 p. m.	Instruction resumed
Jan. 7-19		Short courses in ceramic engineering and highway engineering
Jan. 14-26		Short course in household science
Jan. 24, Thurs.		Semester examinations begun
Jan. 28-Feb. 1, Mon. to Fri.		Short course in business
Jan. 30-Feb. 2, Wed. to Sat.		Entrance examinations
Jan. 31, Thurs.		Semester examinations ended

SECOND SEMESTER, 1917-1918

FEB. 4, 5, MON., TUES.		REGISTRATION DAYS
Feb. 4, Mon.		Senate meeting
Feb. 4-8, Mon. to Fri.		Semester examinations, College of Dentistry
Feb. 4-9, Mon. to Sat.		Semester examinations, College of Medicine
Feb. 6, Wed.,	8 a. m.	Instruction begun
Feb. 9, Sat.		First Semester ends, School of Pharmacy
Feb. 11, Mon.		Second Semester, College of Dentistry and School of Pharmacy
		Second Semester, College of Medicine
Feb. 12, Tues.		Lincoln day
Feb. 16, Sat.		Latest day for rebates in full and for change of study-list without fee
Feb. 22, Fri.		Washington day
		Military ball
March 1, Fri.		Annual band concert
March 2, Sat.		University day
March 8, Fri.		Latest day for removal of incompletes and for removal by seniors of first semester failures
March 12, Tues.		Annual meeting of the Board of Trustees
March 15, Fri.		Midwest League debate
March 28, Thurs. 11 a. m.		Easter recess begun

March 29–April 1		Chemistry inspection trip
April 1, Mon., 5 p. m.		Latest day for filing of completed theses by candidates for professional degrees in engineering
		Senate meeting
April 1–7		Geology inspection trip
April 2, Tues.	1 p. m.	Instruction resumed
April 6, Sat., 5 p. m.		Latest day for rebates of one-half fees
April 8, Mon.		Animal husbandry inspection trip
April 16, Tues.		Railway inspection trip
April 24, Wed.		Commencement, School of Pharmacy
May 3, Fri.		Northern Oratorical League contest
May 9–11, Thurs. to Sat.		Public school art exhibit
May 10, Fri.		Interscholastic oratorical contest
May 11, Sat.		Interscholastic athletic meet
	12 m.	Latest day for the receipt by the Dean of the Graduate School of certified copies of doctors' theses
May, between 15 and 31		Hazelton prize drill
		Annual inspection
		Company competitive drill
May 27, Mon.		Final examinations begun, Colleges of Medicine and Dentistry
May 30, Thurs.		Military Day
May 31, Fri.,	8 a. m.	Final examinations begun
June 1, Sat.,		Class day, College of Dentistry
	12 m.	Latest day for acceptance of undergraduate theses
		Latest day for receipt by the Dean of the Graduate School of certified copies of masters' theses
June 3, Mon.		Senate meeting
June 5, Wed.		Final examinations ended, School of Pharmacy
June 7, Fri.		Final examinations ended
June 8, Sat.		Final examinations ended, College of Medicine
		Class day and alumni meeting, College of Medicine
June 9, Sun.		Baccalaureate address
June 10, Mon.		Class day
	8:30 p. m.	Senior ball
June 11, Tues.		Alumni day
	10 a. m.	Quarterly meeting of the Board of Trustees
JUNE 12, WED.		FORTY-SEVENTH ANNUAL COMMENCEMENT



THE BOARD OF TRUSTEES

MEMBERS EX OFFICIO

The Governor of Illinois

HON. FRANK O. LOWDEN.....*Springfield*

The President of the State Board of Agriculture

HON. JAMES E. TAGGART.....*Freeport*

The Superintendent of Public Instruction

HON. FRANCIS G. BLAIR.....*Springfield*

ELECTED MEMBERS

(Term, 1913-1919)

ELLEN M. HENROTIN.....*1656 North La Salle Avenue, Chicago*

JOHN R. TREVETT.....*Champaign*

FLORENCE E. WATSON.....*Iola*

(Term, 1915-1921)

ROBERT F. CARR.....*2005 McCormick Building, Chicago*

LAURA B. EVANS.....*Taylorville*

ROBERT R. WARD.....*Benton*

(Term, 1917-1923)

WILLIAM L. ABBOTT.....*72 West Adams Street, Chicago*

MARY E. BUSEY.....*Urbana*

OTIS W. HOIT.....*Geneseo*

OFFICERS OF THE BOARD

WILLIAM L. ABBOTT, 72 West Adams Street, Chicago.....*President*

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HAZEN S. CAPRON, Champaign.....*Treasurer*

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EXECUTIVE COMMITTEE

William L. Abbott, Chairman; Robert F. Carr, Otis W. Hoit

STANDING COMMITTEES

Buildings and Grounds—William L. Abbott, Chairman; Mary E. Busey, Robert F. Carr, Laura B. Evans, Robert R. Ward

Finance—Otis W. Hoit, Chairman; Ellen M. Henrotin, James E. Taggart, John R. Trevett, Robert R. Ward

Engineering—John R. Trevett, Chairman; Robert F. Carr, William L. Abbott

Agriculture—Otis W. Hoit, Chairman; James E. Taggart, John R. Trevett

College of Medicine and School of Pharmacy—Laura B. Evans, Chairman; William L. Abbott, Otis W. Hoit

Students' Welfare—Ellen M. Henrotin, Chairman; Mary E. Busey, Laura B. Evans, Florence E. Watson

Instruction—Francis G. Blair, Chairman; Robert R. Ward, Florence E. Watson

Library—Mary E. Busey, Chairman; Ellen M. Henrotin, Florence E. Watson

ADVISORY BOARDS

COLLEGE OF LAW

JOHN G. DRENNAN.....	<i>Chicago</i>
WILLIAM R. HUNTER.....	<i>Kankakee</i>
WALTER C. LINDLEY.....	<i>Danville</i>
GEORGE T. PAGE.....	<i>Peoria</i>
PETER P. SCHAEFER.....	<i>Champaign</i>

SCHOOL OF PHARMACY

E. A. SELL.....	<i>Springfield</i>
A. G. C. ACKERMAN.....	<i>Chicago</i>
JOHN C. WHEATCROFT.....	<i>Grayville</i>
GEORGE C. LESCHER.....	<i>Galesburg</i>
ALBERT ZIMMERMAN.....	<i>Peoria</i>

DEPARTMENT OF CERAMIC ENGINEERING

F. W. BUTTERWORTH.....	<i>Danville</i>
A. W. GATES.....	<i>Monmouth</i>
W. D. GATES.....	<i>Chicago</i>
J. W. STIPES.....	<i>Champaign</i>
EBEN RODGERS.....	<i>Peoria</i>

COLLEGE OF ENGINEERING FOR THE RAILWAY INDUSTRIES OF ILLINOIS

R. H. AISHTON.....	<i>Chicago</i>
C. H. MARKHAM.....	<i>Chicago</i>
W. G. BIERD.....	<i>Chicago</i>
HALE HOLDEN.....	<i>Chicago</i>
W. B. STOREY.....	<i>Chicago</i>

AGRICULTURAL EXPERIMENT STATION

Dairy Husbandry Section

CHARLES FOSS.....	<i>Cedarville</i>
JOSEPH NEWMAN.....	<i>Elgin</i>
R. B. SWIFT.....	<i>Libertyville</i>
F. G. AUSTIN.....	<i>Efvingham</i>
J. P. MASON.....	<i>Elgin</i>

Farm Crops Section

CHARLES ROWE.....	<i>Jacksonville</i>
A. A. HILL.....	<i>Casner</i>
A. C. RICE.....	<i>Jacksonville</i>
H. J. SCONCE.....	<i>Sidell</i>
G. C. OUTTEN.....	<i>Mt. Zion</i>

*Advisory Boards**Floriculture Section*

H. E. SMITH.....	Danville
J. C. VAUGHAN.....	Chicago
W. N. RUDD.....	Morgan Park
F. L. WASHBURN.....	Bloomington
J. F. AMMANN.....	Edwardsville

Horticulture Section

J. MACK TANNER.....	Flora
H. A. ALDRICH.....	Neoga
H. M. DUNLAP.....	Savoy
AUGUST GEWEKE.....	Des Plaines
W. S. PERRINE.....	Centralia

Live-Stock Section

F. E. DRURY.....	Jacksonville
JOSEPH FULKERSON.....	Jerseyville
M. P. LANTZ.....	Carlock
C. J. McMASTERS.....	Allona

Soils Section

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²On leave, first semester.

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Committee on Library—Professor A. H. Daniels (chairman), Professor A. P. Carman, Professor J. W. Garner, Professor H. A. Harding, Professor Kenneth McKenzie, Professor J. S. Kingsley, Librarian P. L. Windsor.

Committee on Athletics—Professor G. A. Goodenough (chairman), Professor W. C. Coffey, Director G. A. Huff, Professor W. S. Bayley, Professor Barry Gilbert.

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Committee on Discipline for Men—Dean T. A. Clark (chairman *ex officio*), Professor H. J. Barton, Professor E. H. Decker, Professor G. A. Goodenough, Assistant Professor F. H. Rankin, Assistant Professor C. M. Thompson.

Committee on Discipline for Women—Dean Fanny C. Gates (chairman *ex officio*), Miss Lurene Seymour, Dr. Q. L. Shepherd.

Committee on Student Organizations and Activities—Associate Professor F. R. Watson (chairman), Dean T. A. Clark (*ex officio*), Dean Fanny C. Gates (*ex officio*), Miss Louise Freer, Assistant Professor A. W. Jamison.

Advisory Committee on Home-Coming—Professor S. W. Parr (chairman), Professor O. A. Harker, Director B. W. Benedict.

Committee on Loan Funds—Dean T. A. Clark (chairman), Assistant Dean H. V. Canter, Assistant Dean H. W. Miller.

Committee on Students' Hospital Benefit Fund—Dean T. A. Clark.

Committee on Accredited Schools—Professor E. J. Townsend (chairman), Professor H. A. Hollister, Professor A. H. Lybyer, Dr. B. S. Hopkins, Registrar C. M. McConn.

Committee on Appointment of Graduates—Professor W. C. Bagley (chairman), Associate Professor H. G. Paul, Professor H. A. Hollister.

Committee on Catalog—Registrar C. M. McConn (chairman), Associate Professor Robert Stewart, Professor C. A. Ellis, Assistant Professor F. W. Scott.

COMMITTEE ON ADMISSIONS FROM HIGHER INSTITUTIONS

Committee on Admissions from Higher Institutions—Professor L. M. Larson (chairman), Professor G. A. Goodenough, Professor H. B. Ward, Assistant Professor A. W. Nolan, Professor H. A. Hollister (*ex officio*), Registrar C. M. McConn (secretary *ex officio*).

PART I
GENERAL INFORMATION



LOCATION

The University of Illinois is situated in Champaign County, about fifty miles northeast of the geographical center of the State. It is 126 miles south of Chicago, 118 miles west of Indianapolis, 164 miles northeast of St. Louis.

The campus of the University lies partly within the corporate limits of the city of Urbana and partly within the corporate limits of the city of Champaign. The two municipalities form one community of about twenty-nine thousand inhabitants. The city halls of the two towns are two miles apart, the campus half way between. The railway, express, telegraph, and telephone services of both cities are available for the University. Mail for the institution itself should be directed to Urbana to insure prompt delivery. The Urbana post office maintains a sub-station at the University, located in the Library Building.

Urbana-Champaign

The cities of Urbana and Champaign are in the heart of the "Corn Belt" and form the business and social center of a rich farming community.

In matters pertaining to health, conditions are good. There is a hospital within three blocks of the campus, in which students may be cared for at moderate expense.

The University has no dormitories, but the number of boarding houses is large, and there are sixty-three residence halls erected by fraternities, sororities, and local clubs.

There are thirty-three churches, representing thirteen denominations, and a number of students' religious associations, leagues, and guilds, including Young Men's and Young Women's Christian Associations.

Under a special State law, the liquor traffic has been barred from all territory within a radius of four miles from the University.

Railway Connections

The University is connected with neighboring cities in Illinois, including Bloomington, Danville, Decatur, Peoria, and Springfield, and also with St. Louis, by the electric interurban lines of the Illinois Traction System.

It may be reached from Chicago and the north and from points in the south by the Illinois Central Railroad, being on the direct line from Chicago to Cairo and New Orleans. It is joined to the east and the west by the Peoria & Eastern Division of the "Big Four" route, as well as by the division of the Wabash Railway which connects Kansas City and St. Louis with Detroit and Buffalo.

The station of the Illinois Central Railroad is in Champaign. The Wabash and "Big Four" have stations in both Champaign and Urbana. There are several hotels in Champaign and Urbana within easy reach of the University, the Beardsley and the Inman in Champaign and the Columbian in Urbana being the largest.

HISTORY

1862. *The Morrill Land Grant*

By this act the national government donated to each state in the Union public land scrip, in quantity equal to 30,000 acres for each senator and representative in Congress, "for the endowment, support, and maintenance of at least one college, whose leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanical arts, * * * * * in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

On account of this grant the State pays the University, semi-annually, interest at the rate of five per cent on about \$649,000.

Location chosen

To secure the location of the University several counties entered into competition by proposing to donate to its use specified sums of money or their equivalent. Champaign County offered a large brick building in the suburbs of Urbana, erected for a seminary and nearly completed, about 1,000 acres of land, and \$100,000 in county bonds. To this the Illinois Central Railroad added \$50,000 in freight.

1867. *Incorporation*

The institution was incorporated February 28, 1867, under the name of the Illinois Industrial University. It was placed under the control of a Board of Trustees, consisting of the Governor, the Superintendent of Public Instruction, and the President of the State Board of Agriculture, *ex officio* members and twenty-eight citizens appointed by the Governor. The chief executive officer was called the Regent, and was made an *ex officio* member of the Board and the presiding officer of both the Board of Trustees and the Faculty. (See also 1873 and 1887 below.)

1867. *Dr. Gregory Regent*

On March 12, 1867, John Milton Gregory, LL.D., was elected Regent of the University. On April 1, 1867, Dr. Gregory accepted the position and entered on his duties. He served as Regent until September 1, 1880.

1868. *The University opened*

The University opened on March 2, 1868. The number of students enrolled was about fifty; the faculty consisted of the Regent and two professors. During the first term another instructor was added, and the number of students increased to 77—all young men.

During the first term instruction was given in algebra, geometry, physics, history, rhetoric, and Latin. Work on the farm and gardens or about the buildings was at first compulsory for all students. In March of the next year, however, compulsory labor was discontinued, save when it was to serve as a part of instruction.

1868-69. *The first laboratories*

During the autumn of 1868 a chemical laboratory was fitted up; and laboratory work in botany was begun the following year.

1870. *Pioneer shop instruction*

In January, 1870, a mechanical shop was fitted up with tools and machinery, and here was begun the *first shop instruction* given in any American university. In the summer of 1871 the Wood Shops and Testing Laboratory (burned on June 9, 1900) were erected and equipped for students' shop work in both wood and iron.

1870. *Women admitted*

On March 9, 1870, the Trustees voted to admit women as students. In the year 1870-71 twenty-four availed themselves of the privilege. Since that time they have constituted from one-sixth to one-fifth of the total number of students.

1873. *First reorganization of the Board of Trustees*

At this time the number of members was reduced from thirty-two (see 1867 above) to eleven—the Governor and the President of the State Board of Agriculture, *ex officio*, and nine others, who were still appointed by the Governor. Beginning at this time also, the President of the Board has been chosen by the members from among their own number for a term of one year. (See also 1887 below.)

1877. *Authority to confer degrees received*

According to the original State law, the usual diplomas and degrees could not be granted by the University; certificates showing the studies pursued and the attainments in each were given instead. The certificates proved unsatisfactory to the holders, and in 1877 the legislature gave the University authority to confer degrees and issue diplomas.

1880-81. *Dr. Peabody Regent*

In June, 1880, Regent Gregory's resignation was accepted to take effect September 1, 1880, and Selim Hobart Peabody, A.B., Ph.D., Professor of Mechanical Engineering and Physics, was made Regent *pro tempore*. At the next annual meeting, in March, 1881, he was elected Regent.

1885. *Change of name*

In this year the General Assembly changed the name of the institution from the *Illinois Industrial University* to the *University of Illinois*.

1885. *The State Laboratory of Natural History transferred to the University*

See page 414.

1887. *Second reorganization of the Board of Trustees*

In 1887 a law was passed making membership in the Board elective, at a general State election, and restoring the Superintendent of Public Instruction as an *ex officio* member. There are now, therefore, three *ex officio* and nine elective members. (For the previous organization of the Board see 1867 and 1873 above.)

1887. *The Agricultural Experiment Station established at the University*

See page 409.

1890. *Additional Federal endowment*

In 1890 the Congress of the United States made further appropriations for the endowment of the institutions founded under the act of 1862. Under this enactment each such college or university received the first year \$15,000, the second year \$16,000, and in each succeeding year a sum larger by \$1,000 than the amount of the preceding year, until the amount reached \$25,000; this sum was to be paid yearly thereafter.

1891. Dr. Burrill Acting Regent

In June, 1891, Regent Peabody's resignation was accepted, to take effect September 1, and in August, Thomas Jonathan Burrill, A.M., Ph.D., Professor of Botany and Horticulture, was appointed Acting Regent. Dr. Burrill served in this capacity until September, 1894.

1892. The Graduate School

Beginning with this year, graduate work was undertaken under the name of the Graduate School, but without the organization of a separate faculty.

1894. The Summer Session

The first Summer Session of the University was authorized by a vote of the Trustees on March 3, 1894, and was opened in June of that year.

1894. Dr. Draper President

On April 13, 1894, Andrew Sloan Draper, LL.D., was elected Regent. He accepted May 10, 1894. On August 1, his title was changed to President. Dr. Draper entered upon his duties on August 1, 1894. He served until June, 1904.

1896. The School of Pharmacy

On May 1, 1896, the Chicago College of Pharmacy, founded in 1859, became the School of Pharmacy of the University of Illinois.

1897. The College of Medicine

Negotiations looking to the affiliation of the College of Physicians and Surgeons of Chicago with the University, which had been going on for several years, were concluded by the Board of Trustees March 9, 1897. Accordingly, the College of Physicians and Surgeons became, on April 21, 1897, the College of Medicine of the University of Illinois. (The College of Medicine was discontinued on June 30, 1912, but was re-opened on February 12, 1913.)

1897. The School of Music

By vote of the Trustees on June 9, 1897, the department of music, which had been reorganized and enlarged in 1895, was erected into the School of Music, with a separate faculty and organization.

1897. The State Water Survey authorized

See page 416.

1897. The Library School

In 1897 the School of Library Economy, which had been established in 1893 at the Armour Institute of Technology in Chicago, was transferred to the University, the Director of that school was appointed Librarian of the University Library, and the Library School was opened.

1897. The College of Law

Pursuant to an action of the Board of Trustees, taken December 8, 1896, the School of Law was organized, and was opened September 13, 1897. The course of study covered two years, in conformity with the then existing requirements for admission to the bar of Illinois. In the following November, however, the Supreme Court of the State announced rules relating to examinations for admission to the bar which made three years of study necessary, and the course of study in the Law School was immediately rearranged on that basis. On February 9, 1900, the name of the School of Law was changed, by vote of the Board of Trustees, to *College of Law*.

1899. The State Entomologist's office permanently established at the University

See page 415.

1900. Courses in Business Administration

In 1900 the General Assembly made an appropriation for the establishment of courses of training for business life, and, in accordance with that action, the Trustees approved the organization of the Courses in Business Administration. (See also 1915 below.)

1901. The College of Dentistry

In accordance with an action taken by the Board of Trustees on March 12, 1901, a School of Dentistry was organized as a department of the College of Medicine. The School was opened October 3, 1901. The name was changed to *College of Dentistry* on April 27, 1905. (The College of Dentistry was discontinued on June 30, 1912, but was re-opened on October 1, 1913.)

1903. The Board of Examiners in Accountancy created

See page 419.

1903. The Engineering Experiment Station established

See page 412.

1904. Dr. James President

On March 9, 1904, President Draper's resignation was accepted, to take effect July 1. On August 23, 1904, Edmund James James, Ph.D., LL.D., was elected President. He accepted on August 26, 1904, and entered upon his duties in the fall of that year.

1905. The School of Education

By a vote of April 27, 1905, the Board of Trustees established the School of Education, to provide for the professional training of teachers.

1905. The State Geological Survey established

See page 417.

1906. Adams Fund

This fund was created by an act of Congress dated March 16, 1906, and provides for an appropriation of \$5,000 for the year ending June 30, 1906, and an increase of \$2,000 a year for five years. The present appropriation to the University under the Adams Act, is, therefore, \$15,000 a year. Its use is limited to the necessary expenses of original research and experimental work in agriculture.

1907. Nelson Fund

This fund was created by an act of Congress dated March 4, 1907, and carried with it an appropriation of \$5,000 for the fiscal year ending June 30, 1908, and an annual increase of \$5,000 for four years. The present appropriation to the University under the Nelson Act is, therefore, \$25,000 per year. Its uses are identical with those of the Morrill Fund.

1906-7. The School of Railway Engineering and Administration

On January 30, 1906, the Board of Trustees created in the College of Engineering a department of railway engineering; on January 22, 1907, supplementing that action, it established the School of Railway Engineering and Administration.

1906-7. The Graduate School organized as a separate faculty

The General Assembly appropriated \$50,000 for the Graduate School, and the Executive Faculty of that school was organized.

1911. The Mill Tax

The General Assembly passed a law providing that in the year 1912, and annually thereafter, the proceeds of a tax of one mill for each dollar of the assessed valuation of the taxable property of the State should be set apart as a fund for the maintenance of the University.

1911. Cooperative Investigation of Illinois Coal Problems

See page 420.

1912. The Colleges of Medicine and Dentistry discontinued

The Colleges of Medicine and Dentistry were discontinued on June 30, 1912.

1913. The Colleges of Medicine and Dentistry reopened

On February 12, 1913, the Board of Trustees accepted the gift of the capital stock of the College of Physicians and Surgeons, donated to the University by the alumni and other friends of medical education in Chicago, and the College of Medicine was reopened.

The College of Dentistry was reopened on October 1, 1913.

1913. The College of Liberal Arts and Sciences

In this year the College of Literature and Arts and the College of Science were united to form the College of Liberal Arts and Sciences.

1915. The College of Commerce and Business Administration

The Courses in Business Administration, organized in 1900, were erected into a separate College of Commerce and Business Administration.

EQUIPMENT

BUILDINGS AND GROUNDS

The land occupied by the University embraces 236 acres, besides a farm of 949 acres. There are at the present time some fifty-one buildings on the campus.

Liberal Arts Group

University Hall (erected 1873) is the "old main building" of the University. It occupies three sides of a quadrangle, and is five stories in height. It is devoted to class rooms and offices.

Lincoln Hall (erected 1911) has a frontage of 230 feet. The exterior is brick, stone, and terra cotta. This building provides for the advanced work of the departments of the classics, English, Romance languages, Germanic languages, history, economics, education, political science, sociology, and philosophy. The first three floors provide, in addition to the ordinary class and consultation rooms, seminar libraries and conference rooms. On the fourth floor are research rooms and two museums, the Museum of Classical Art and Archeology, and the Museum of European Culture.

General Science Group

The Laboratory of Physics (erected 1909) is a three-story fireproof brick building trimmed with Bedford limestone. The length is 178 feet and the depth of the wings is 125 feet. The lecture room has a seating capacity of two hundred sixty-two. A one-story annex, 78 by 28 feet, contains the ventilating and heating fans and the machine shop of the department. The total available floor area, exclusive of the basement, is about 60,000 square feet. The large laboratories and the recitation rooms are mostly in the west wing. The east wing contains about thirty smaller laboratories for advanced experimental work. The blue print department of the University occupies rooms on the top floor of the building. Gas, distilled water, compressed air and vacuum, and direct and alternating electric currents of a wide range in amperes and in volts are available in all parts of the building.

The Chemistry Laboratory (original structure erected 1901-2; addition 1914-15) is a brick building. The original structure is of slow burning construction, and the addition, which will have five stories available, fireproof. The total available floor area is about 164,000 square feet. The ground plan is a hollow square, the extreme dimensions of which are 230 feet along the front, and 200 feet along the sides. The center court contains the lecture amphitheatre, which seats 390. The side wings of the building contain the general student laboratories, while the center portions of both old and new structures are occupied by offices, class and seminar rooms, library, museums, supply rooms, and graduate research laboratories. The main store room is in the basement under the lecture room. In this building are also located the offices and laboratories of the State Water Survey and the department of bacteriology.

Natural History Hall (old part erected 1892; addition 1909) covers a ground area 135 feet by 275 feet. It is occupied by the departments of botany, entomology, zoology, physiology, geology, and mathematics, together with the offices and equipment of the State Geological Survey, and the State Natural History Survey, and the office of the State Entomologist. A fireproof museum 51 feet by 63 feet

in size, equipped with fireproof and dustproof cases, occupies the center of the building.

The Botany Annex (erected 1914) is a greenhouse laboratory covering 5,000 square feet, divided into compartments that are severally provided with devices for controlling humidity and temperature within close limits for exact experimentation in the fields of plant physiology and pathology. To this laboratory is attached a reconstructed two-story dwelling, giving working and class rooms for use in connection with the experiments conducted under glass.

The Ecological Laboratory (remodeled and reconstructed in 1914 from a residence at 1210 Springfield avenue) is equipped for the experimental study of the relations of animals to environment.

The Vivarium (erected 1915-16) occupies the block south of the Illinois Traction System tracks, between Wright and Sixth streets, the main facade of the building being toward Healey street. The scheme involves a main building containing eight laboratories, one office, and store rooms, with supplementary greenhouses at each end, and a head house serving two greenhouses, together with two screened houses. The main building is a brick structure, two stories high, connected to the head house by a one story passage from the main corridor. The building is occupied by the departments of zoology and entomology.

The Entomology Building (erected 1905 for the use of the State Entomologist and his staff) is a two-story building 48 by 20 feet, with basement storerooms, and with two insectary wings of greenhouse construction, each 25 by 20 feet. It contains the office of horticultural inspection, a stenographer's room, rooms for the assistant inspectors and insectary assistants, and a large fireproof vault. The glass-covered wings are equipped for experimental entomology and life-history studies.

The Astronomical Observatory (erected 1896) is a brick building with extreme dimensions of 75 by 55 feet. It has three wings and is surmounted by a dome 25 feet in diameter. An adjacent building with a 15-foot dome was erected in 1914.

Commerce and Business Administration

The Commerce Building (erected 1912) is a fireproof building three stories high, 153 feet on the front and 60 feet deep, with a one-story annex containing a lecture room 48 feet square. The building has a total floor area of about 29,000 square feet; it provides class rooms, offices, and laboratories for the work in business administration. The exterior first story finish is buff Bedford stone; the second and third stories are of brick with carved stone trimmings and cornice. The roof is of tile, and the interior trim is of dark oak. The Administration Building (see page 56) is a second unit of this building and will eventually be occupied by this College.

Engineering Group

Engineering Hall (erected 1894) is a four-story building, with a frontage of 200 feet, a depth of 76 feet on the wings and 138 feet on the center, and a floor area of 47,000 square feet. The first and second floors are occupied by the offices and recitation rooms, and the instrument and drafting rooms of the departments of civil engineering and municipal and sanitary engineering. The engineering lecture room, on the second floor, has a seating capacity of two hundred twenty-five. The third floor is occupied by the offices of the Dean of the College of Engineering and Director of the Engineering Experiment Station, and by offices, recitation, and drafting rooms of the department of mechanical engineering. A portion of the third floor and all of the fourth floor are occupied by the department of architecture.

The Electrical Engineering Laboratory (erected 1898) is a two-story brick building with floor area of 18,000 square feet. The basement contains the departmental

shop, the storage battery room, the electric furnace room, and rooms for electrical research. The first floor contains the undergraduate laboratory, the instrument room, the high potential laboratory, and the drafting, lecture, and recitation rooms. The second floor contains the photometric laboratory, the offices, the departmental library, and a room used by the Electrical Engineering Society.

The Mechanical Engineering Laboratory (erected 1905) is a brick building with a frontage of 120 feet and a total depth of 182 feet, which during the present year has been changed in the interior to provide for a basement with an elevated or mezzanine operating floor, giving a floor area for laboratory purposes of 28,000 square feet. On the mezzanine floor will be mounted all of the principal equipment in the laboratory; in the basement auxiliary apparatus will be housed. The front section is two stories high and together with the two-story addition to the south contains offices, lecture and computation rooms, a lavatory, and an instrument room. The main laboratory is divided into three bays, each approximately 40 feet wide. The middle bay is provided with a ten-ton, three-motor traveling crane, and the north bay with a five-ton hand-operated traveling crane. In the basement two flumes, each three feet deep by four feet wide and 120 feet long, together with a storage reservoir having a capacity of 7,000 gallons, provide for the measurement and storage of water.

The Laboratory of Applied Mechanics (erected 1901-2) is a brick building having a floor area of 16,000 square feet. The front part contains the materials testing laboratory, and the rear wing the hydraulics laboratory.

The Road Materials Laboratory (erected 1910) is a two-story brick building containing the laboratories, recitation rooms, and offices of the department of civil engineering, which are closely associated with the work of testing materials used in road construction, and with researches in the development of such materials.

The Ceramic Engineering Kiln House (erected 1912) connects with the ceramic engineering building. It has a floor area of 11,200 square feet, and contains the kilns, furnaces, and heavy machines for working clays.

The Mining Engineering Laboratory (erected 1912) is a one-story building having a floor area of 3,600 square feet. It contains a chemical laboratory for the department of mining engineering, and a Mine Rescue Station equipped and arranged for training men in the methods of mine rescue work.

The Ceramic Engineering Building (erected 1915-16) is a three-story structure, 188x65 feet, of fireproof construction, built of texture brick and polychrome terra cotta. The front of the building is decorated with colored tile panels. The roof is of Spanish tile, and the floor of the halls and corridors of clay tile. The structure is intended to present modern achievement in the use of ceramic structural materials. The third floor is occupied by the State Geological Survey and about one-third of the first floor by the department of applied mechanics. The main portion of the building is utilized by the recitation rooms, laboratories, and offices of the department of ceramic engineering.

The Locomotive Testing Laboratory (erected 1912) is a fireproof building with brick walls, 117 feet long and 42 feet wide, connected by a spur with the Illinois Traction System tracks. It houses a locomotive testing plant, which consists of supporting wheels on which rest the drivers of the locomotive to be tested, a dynamometer to which the locomotive drawbar is attached, and which measures the tractive force exerted by the locomotive, water brakes for absorbing the power developed by the locomotive, and other auxiliary apparatus. The exhaust gases pass through a "transite" (or asbestos board) duct to a large fan which forces them through a

reinforced concrete cinder separator; the separator removes the cinders and discharges the gases into the air through a brick stack eight feet in height.

The Transportation Building (erected 1912) is a three-story fireproof building of brick trimmed with stone. The dimensions of the building are 65x189 feet and the total floor area is 34,225 square feet. The first and second floors of the building are occupied by the departments of railway and mining engineering, and the third floor by the department of general engineering drawing.

The Metal Shops (erected 1902) occupy a one-story brick building with a floor area of 12,000 square feet, containing four office rooms, a machine shop, and a forge shop. The machine shop is 48 by 140 feet. Power is supplied by a twenty-horse-power electric motor. A three-ton traveling crane of ten-foot span covers the center of the floor for the entire length.

The Wood Shop (erected 1901-2) and the *Foundry* (added 1904) occupy a brick building which has a floor area of 16,000 square feet. The part of the building devoted to the wood shop contains a bench room, lathe room, machine room, and various smaller rooms for lectures and exhibition purposes. The part devoted to the foundry has a molding floor 35x80 feet, traversed by a five-ton traveling crane, and a basement room for the storage of materials.

Agricultural Group

The Agricultural Building (erected 1900) consists of four separate structures, built around a court and connected by corridors. The court was enclosed in 1912 and divided into five large class rooms. The main building, three stories in height, contains offices, class rooms, and laboratories for the departments of agronomy, animal husbandry, dairy husbandry, and horticulture; the chemical laboratory of the Experiment station; administration rooms; and assembly room (Morrow Hall) with a seating capacity of 500. The other three buildings are two stories high; one is for dairy manufactures, one for farm crops, and one for class rooms and laboratories. These buildings are of stone and brick, roofed with slate, and contain 113 rooms and a total floor space of about two acres.

The Agronomy Building (erected 1904-5) is a brick and slate structure 50 by 100 feet. It contains a field laboratory and storage room for crop work.

The Agronomy Greenhouse (erected 1900, rebuilt 1912) consists of two glass structures covering a total floor space of 6,500 square feet, and a service building equipped with research and photographic laboratories.

The Agronomy Barn (erected 1915) is a wooden structure 36 by 70 feet, designed as a service and storage building for the field work of the department of agronomy.

The Animal Husbandry Cattle Feeding Plant has a capacity for feeding 150 steers at a time. It consists of open and closed sheds with paved lots adjoining, with a storage barn 44 by 72 feet and an experimental silo.

The Farm Mechanics Building (erected 1906-7) is a three-story brick structure, containing class rooms, offices, lecture rooms, drafting room, library, laboratories, and tool and storage rooms. The third floor, which is reached by an elevator, furnishes storage room for the greater part of \$16,000 worth of farm machinery, lent the College by various manufacturing companies and used for laboratory work. The facilities afforded by this building, with its equipment, make possible the assembling, testing, and adjusting of all the important machines used in farm operations.

The Beef Cattle Building (erected 1904-5) is a one-story structure of brick and slate, trimmed with stone, 217 feet across the front, with a wing at either end 33 by 49 feet; the central portion rises two stories and is used for the storage of feed. Other portions of the building are used as quarters for the breeding herd, and will accommodate about 100 head of cattle.

The Cattle Feeding Plant (erected 1915-16) is of brick and wood construction, located on the axis of Fourth street, south of the "Farm Lane." The lower part is a fireproof structure, 300 feet long, open to the south. The feeding lots are paved with brick and extend out some 30 feet from the building line. The plant is used as a storage place for feed for the animal husbandry department, and the upper stories are constructed as an elevator with large grain bins, where several tons of grain can be elevated, preparatory to grinding, shipping, or feeding. In connection with the plant is a corn crib of the capacity of 12,000 bushels. The four silos to the north are 16x70 and open into the feed room of the plant. They are of three different materials: tile, concrete, and brick.

The Experimental Dairy Barns (erected 1912) comprise a round barn 70 feet in diameter with a reinforced concrete silo in the center, a semi-detached rectangular structure 40 by 70 feet with a Grout silo adjacent, and a small dairy house and shop 26 by 32 feet. The barns are of frame construction on brick walls with solid floors of the mill type of construction, and contain feed rooms, hay lofts, and other accommodations for the experimental dairy herd. The dairy house is of frame construction, two stories in height, and contains office, shop, coal room, dairy room, and four sleeping rooms for employees.

The Sheep Barn is a wooden structure consisting of a main barn 36 by 90 feet, and a shed, opening to the south, 25 by 100 feet in size. A six-foot aisle, lined by pens on each side, runs through the center of the barn. This building besides accommodating the University flock is used for experimental work. Its location and construction insures dry footing and ample light and ventilation throughout the year.

Other buildings for the accommodation of live stock are the horse barn, the piggery, and two large barns on the South Farm.

The Stock Pavilion (erected 1913) is a fireproof building 54 feet high on the front and 148 feet deep with circular ends 92 feet in diameter and 20 feet high. The total ground area is 30,000 square feet, and the show arena is 216 feet long and 65 feet wide. Seats of concrete provide accommodations for 2,000. Arrangements are to be made providing for a division of the arena into three parts, giving three separate judging rooms for instructional purposes. The building also contains class rooms and offices. Stabling will be provided in a separate structure. The exterior is of brick and terra cotta, renaissance in design, the frieze being enriched with medallions of animal heads.

The Genetics' Building (erected 1915-16) is a one-story brick structure (located on Farm Lane and Mathews Avenue) housing the laboratories, offices, and animal rooms of the genetics department of the Agricultural College. The work carried on in this building is done principally by graduate students.

The Horticulture Building (erected 1904-5) is a structure of brick and slate trimmed with stone, approximately 50 by 100 feet in size. It is used as a field laboratory for horticultural tests, and contains sorting rooms, storage rooms, and a laboratory for the mixing of spraying materials and other operations in connection with the horticultural work.

The Horticulture Greenhouse Group (erected 1912-13) includes (1) a floricultural group and (2) a vegetable and plant breeding group.

(1) *The Floriculture Greenhouse Group* (erected 1912-13) consists of a two-story and basement service building 93 by 37 feet, and the following glass structures: four houses each 105 by 28 feet, three houses each 105 by 35 feet, one corridor house 139 by 10 feet, one storage house 50 by 12 feet, and a palm house 80 by 40 feet. The service building is of hollow tile and cement construction, and contains labor-

atories, lecture room, herbarium room, offices, and seminar room, as well as potting, storage, and work rooms.

(2) *The Vegetable and Plant Breeding Greenhouse Group* (erected 1912-13) consists of a glass house for vegetable growing 105 by 28 feet, two houses for plant breeding each approximately 80 by 30 feet, a wire house 80 by 30 feet, and a two-story and basement service building 82 by 36 feet, containing laboratories, work rooms, class rooms, offices, and storage rooms. The type of construction of this building is the same as that of the floriculture service building.

Law Building

The Law Building (erected 1878; remodeled 1902 and 1912) is the second oldest building in the University group. It has two stories and a basement. The upper floor contains the Law Library, the students' conference room, the private offices of the members of the law faculty, and the Moot Court Room, a model court room with a seating capacity of four hundred. On the main floor are the recitation rooms, the Dean's offices, and the faculty room. In the basement are the lockers, the students' reading room, and a court room for the Law Clubs.

Buildings for General University Use

The Administration Building (erected 1914-15) is a three-story and basement fireproof building of brick and stone. It is 153 feet long and 66½ feet deep with a one-story annex, 48 feet by 42 feet, with a total floor area of 36,000 square feet; it contains the rooms of the Board of Trustees and the offices of the President, the Registrar, the Comptroller, the Supervising Architect, the Dean of Men, the High School Visitor, the Adviser to Foreign Students, and the Alumni Association, and the Information and Stenographic Bureau. This building is the second unit of the Commerce Building, and will eventually be occupied by that College.

The Library Building (erected 1896-97; an addition to the stack room erected 1914) is modern Romanesque in style, is built of Minnesota sandstone, and measures 167 by 141 feet, with a tower 132 feet high. The first floor, or basement, contains the rooms of the catalog and order departments, the bound newspapers, and the University Station post office. The second, or main floor, contains the general reference room, the periodical reading rooms, a small conference room, and the delivery room, which opens into the second story of the stack. The third floor contains the study room, lecture rooms, and office of the Library School, faculty study room, and the office of the librarian and assistant librarian. The five-story book stack is a rear wing to the building, separated from it by a fireproof wall. The delivery room is open to the roof and is lighted by a dome of art glass; the lunettes are decorated with frescoes symbolic of the four older colleges of the University—Literature and Arts, Science, Agriculture, and Engineering.

The Auditorium (erected 1907-8) is a brick and stone building for general meeting purposes. It contains an auditorium seating about 2,200, a memorial vestibule, and a four-manual organ. All general University exercises and convocations are held in this building.

The Men's Gymnasium (erected 1901) is a three-story building of stone and pressed brick, 100 by 150 feet. On the first floor there is a swimming pool, 26 feet wide, 75 feet long, and 8 feet deep at the lower end, lined with white enamel bricks. This floor contains also the general locker room, which is fitted up with all-metal lockers, and with shower bath, and steam baths; rooms for the University Athletic teams; a room for visiting teams; a special dressing room for members of the faculty; and offices for the physical director and the instructors in athletics. The entire second floor is one room, fitted up with modern appliances for gymnastic exercises.

The third floor contains an elevated running track, 15 laps to the mile, banked on the turns to secure speed and comfort in running.

The Gymnasium Annex (erected in 1889-90) has a clear floor space of 15,000 square feet in one hall.

The Armory (erected 1914-15) comprises a drill room with a clear area of 200x400 feet and a height of 98 feet at the center, the roof being carried by fourteen three-hinged steel arches. The sides are of hollow tile and the ends, supported by columns, are of steel, glass, tile, and concrete, with wood frames and sashes. The drill floor is of sufficient area to permit the maneuvering of an entire battalion of the cadet brigade. Provision has been made for the addition of the balcony around the drill floor with seats for 3,000 and for the addition of three-story facades along the sides flanked by towers at each end. This will provide space for company rooms, locker rooms, shooting tubes, and class rooms.

The Woman's Building (erected 1905; addition 1912) is in the New England colonial style of architecture, of reddish brown brick, with white stone trimmings. The central part of the structure is the women's gymnasium. On the lower floor there are swimming tank, lockers, dressing rooms, and baths. The upper floor is devoted to the main gymnasium, which is 92 by 50 feet. The north wing of the building is given to the department of household science, and the south wing provides rooms for the social life of the women students. The addition is a three-story fireproof building with basement. It is 200 feet long on the front and 83 feet on each connecting wing, having 43,000 square feet of floor area. It has a large colonnade with towers on the front and two smaller colonnades on the north and south of the inner court. The addition is similar to the old building in finish and supplements the working space of the departments using it. It has two halls for literary societies and a modern flat on the upper floor, and an institutional kitchen and large dining room on the second floor. There are also offices for the Dean of Women and the Director of the Courses in Household Science, laboratories, social rooms, and space for the expansion of gymnasium work.

The President's House

The President's House (erected 1896) is a three-story frame building, in the colonial style. The first story is designed primarily for entertaining; large reception and dining parlors are so arranged as to open together into a central corridor. The second and third stories provide library and living rooms.

Service Buildings

The Central Heat and Power Plant (erected 1902; addition 1910) is 55 by 120 feet. It contains boilers aggregating 1,800 horsepower. A supplemental boiler and power plant, designed ultimately to carry the load of the present station, is equipped with boilers of 1,000 horsepower. These two stations furnish steam for heating and power to all buildings on the campus. A power plant containing a 250-kilowatt Allis-Chalmers direct connected steam engine and dynamo, a 125-kilowatt direct connected Westinghouse engine and generator, and a 100-kilowatt Curtiss turbo-generator, together with the accessories necessary to a complete power station, supplies current for light and power to all parts of the grounds. The pipe lines of the heating system and the circuits for distributing electricity are carried from the central plant to the several buildings through brick and concrete tunnels and clay and concrete conduits. Altogether there are now 6,275 feet of tunnels and 3,800 feet of conduit for the distribution of steam, and 7,000 feet of conduit for the distribution of electricity. The new boiler and power plant provides temporary quarters for the electric test car of the department of railway engineering.

The Pumping Station of the University water-works is a brick building, 38 by 73 feet, connected with the central heating station. Four 8-inch wells, 145 feet deep, and one 12-inch well 148 feet deep supply the University with water. A masonry reservoir provides for a fire-reserve supply. The pumps, tanks, and connections are arranged to give opportunities for experimental work, and also to vary the working conditions in the adjacent hydraulics laboratory. In this building is kept the equipment of the University fire department, including an electric automatic hose and chemical wagon.

BUILDINGS IN CHICAGO

The College of Medicine Building, in which are housed all the departments except that of anatomy, is a brick and stone structure two hundred feet long by one hundred and ten feet deep and five stories high, fronting on three streets. The building contains three lecture rooms with a seating capacity of two hundred each; a clinical amphitheater with a seating capacity of over three hundred; an assembly hall with a seating capacity of seven hundred; besides recitation rooms. It also contains laboratories for physiology, chemistry, materia medica, therapeutics, and microscopical and chemical diagnosis, each accommodating from fifty to one hundred students at a time.

A three-story annex to the main building contains the laboratories used by the departments of pathology, bacteriology, and chemistry. All of these laboratories have outside light and are furnished with work tables, desks, lockers, and the necessary apparatus. There is a supply of microscopes, lenses, and oil immersions, and a projection apparatus for the illustration of lectures by means of stereopticon views.

The College of Dentistry is housed in a six-story building containing three amphitheaters, recitation rooms and lecture rooms, laboratories, dissecting rooms, a clinical operating room, and an infirmary. A parlor is provided for the use of the women students. The building adjoins that of the College of Medicine.

The School of Pharmacy.—In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets and comprising eight city lots with two large brick buildings, connected by a fireproof central stairway tower. The new quarters were occupied in June, 1916.

LIBRARIES

(For the Library Staff see page 33.)

The University Library includes all the books belonging to the colleges and schools of the University which are situated in Urbana and also the libraries of the College of Medicine and the School of Pharmacy in Chicago.

On December 1, 1916, the contents of the several libraries were as follows:

In Urbana:	Volumes	Pamphlets	Maps
General library, including departmental collections.....	347,807	39,968	1,993
State Laboratory of Natural History library.....	8,580	44,444	99
State Geological Survey library.....	1,825	4,690	1,045
In Chicago:			
College of Medicine library.....	17,668	3,105	.....
Pharmacy library.....	3,240	1,000	8
Total in the University.....	379,220	93,207	3,145

The Library is housed, for the most part, in the Library building, and is for the use of the whole University. The officers of instruction and administration of the University, the graduate students, and the members of the senior class have direct

access to the shelves; other students may have this privilege upon the recommendation of their instructors. All students have the direct use of 10,700 volumes in the reading rooms, and in addition advanced students have the use of the seminar libraries. Over 3,000 periodicals are currently received.

As a part of the Library are included several special collections: The *University of Illinois collection*, including printed material illustrating the history of the University: about 300 volumes. *College Publication collection*, comprising the catalogs, announcements, reports, studies, etc., of other educational institutions: about 5,500 volumes. *Thesis collection*, a complete file of the original copies of the theses presented for graduation from the University of Illinois, bound and filed by years: 2,160 volumes. The *Collection of School Reports*, a catalogued collection of school reports, courses of study, and other documents published by public school authorities throughout the United States. The *Dziatzko collection of Library Economy*, bought in 1905, the entire library of Karl Dziatzko, librarian of Göttingen University: 300 volumes, 250 pamphlets. The *Dittenberger Collection of the Classics*, bought in 1907, the entire library of Wilhelm Dittenberger, professor of Classical Philology in the University of Halle: 5,600 items. The *Heyne collection* purchased by the University in 1909, the philological library of Professor Moritz Heyne of the University of Göttingen: about 5,000 items, principally on German philology and literature. The *Karsten collection*, principally on French and German philology and literature, the library of the late Professor Gustaf E. Karsten, presented by Mrs. Eleanor G. Karsten. The *Grober collection*, purchased in 1912, the entire library of the late Professor Gustav Grober, of Strasburg: 6,300 titles, principally on the Romance languages. The *Vahlen collection*, purchased in 1913, the entire classical library of the late Professor Johannes Vahlen, of Berlin: 10,000 volumes. The *Aron collection*, purchased in 1913, the pedagogical library of the late Dr. R. Aron, of Berlin: 20,000 volumes. The *Carl Martin James collection*, 1,030 volumes relating to statistics and similar subjects, presented in 1915 by President Edmund J. James. The *D. C. Greene collection*, presented in 1915 by Professor E. B. Greene: 219 volumes of books and newspapers relating to Japan. The *Rattermann collection*, of German-American literature and history, purchased in 1915: 7,000 volumes. The *Amanda K. Casad collection*, relating to history, economics, politics, and education, presented in 1916 by President Edmund J. James: 1,732 volumes. The *Constance Barlow-Smith collection* of musical scores: manuscript, books, and portraits, presented in 1916 by Mrs. Constance Barlow-Smith.

A number of departmental and college libraries and reading rooms are maintained in various buildings on the campus; these libraries do not necessarily contain all the books in the respective subjects. In some instances they are primarily for the use of the graduate students and advanced undergraduate students in the departments using the respective buildings. The principal departmental libraries and reading rooms are the following:

<i>Name of Library</i>	<i>Location</i>	<i>Volumes</i>
Philosophy, Psychology, and Education	Lincoln Hall	15,497
Classics	Lincoln Hall	22,986
Modern Languages	Lincoln Hall	27,161
English	Lincoln Hall	16,170
History and Political Science	Lincoln Hall	20,000
Economics and Sociology	Lincoln Hall	24,182
Natural History	Natural History Building	22,377
Law	Law Building	21,876
Commerce Reading Room	Commerce Building	1,622
Architecture, Ricker Library of	Engineering Building	4,534
Agriculture Reading Room	Agricultural Building	8,830
Chemistry	Chemistry Building	10,500
Physics	Physics Building	1,455
Mathematics	Natural History Building	5,521
Railway Engineering and Mining	Transportation Building	4,043
Engineering	Engineering Building	2,869

Mason Library of Western History. The library of western history collected by Edward G. Mason, Esq., long president of the Chicago Historical Society, is in the Public Library of the city of Champaign, and is accessible to students in the University.

MUSEUMS AND COLLECTIONS

College of Liberal Arts and Sciences

Liberal Arts Group

Art.—A collection of casts, photographs, and engravings presented to the University in 1876 by citizens of the community has, for want of a suitable gallery, been placed in different buildings on the campus. Eight large statues are in the Auditorium foyer. Numerous pieces are now in the studios of the department of art and design in University Hall, and others are in the corridors and class rooms of University Hall, Lincoln Hall, Natural History Hall, and the Library. A collection of eighty-one German and Japanese prints purchased by the department of art and design from the St. Louis Exposition in 1905 is displayed in the rooms of the department of art and design.

Other collections of value to art students, consisting of a number of casts of Moorish, Spanish and German ornament and miscellaneous casts, models, prints, and drawings, are placed in the studios and corridors of the department of art and design.

Classical Archeology and Art.—This museum is located in Rooms 402, 404, and 406 Lincoln Hall, and contains casts and photographs of works of Greek and Roman sculpture; originals and models of Babylonian, Greek, and Roman antiquities; and many objects from the finds of the Egypt Exploration Fund, received through the generosity of Mr. W. G. Hibbard, Jr., of Chicago; museum coins; thirty Greek papyri; Babylonian tablets; and 1,020 photographs of historic sites and archeological remains in Greece, Italy, and other parts of the ancient world. Over 1,600 slides belonging to the department of the classics are also available. The museum is open on Sunday, Monday, Wednesday, and Friday afternoons, and Saturday mornings.

Education.—In Room 417 University Hall is a collection of illustrative material from the manual training departments of various schools; photographs of school buildings; drawings and constructive work by pupils in the public schools; and the nucleus of a collection of apparatus for the school laboratory.

European Culture.—The Museum of European Culture is in the north wing of Lincoln Hall. The collection consists of casts of Romanesque, Gothic, and Renaissance sculpture; color reproductions of masterpieces of painting; originals and facsimiles of medieval manuscripts, and early printed books; early maps of the world; peasant costumes in full size and in small costume manikins; models of ships; theater models and prints of theaters and actors; replicas of seals; reproductions of prehistoric antiquities, of early ivory carving, of runic inscriptions, of early musical instruments, and of arms and armor; and part of the Hibbard collection of 318 old coins, presented by Mr. William G. Hibbard in 1916. The museum is open on Sunday, Monday, Wednesday, and Friday afternoons, and Saturday mornings.

Science Group

Botany.—The herbarium contains about 100,000 sheets of mounted specimens. It is representative of the higher plants and fungi of Champaign County and of the State, and forms a collection for the general flora of the United States. Through recent acquisition of the herbaria of the late Dr. Frederick Brendel of Peoria, the

late Dr. W. Welsch of Mascoutah, the late Dr. Jacob Schneck of Mount Carmel, and Professor W. E. Andrews of Pana, and the earlier gift of the large personal herbarium of Mrs. Agnes Chase, its value for students of Illinois flora has been largely increased. Because of the interest of the late Professor Burrill and his special students, Clinton, Earle, Seymour, and others, in the study of parasitic fungi, the part of the herbarium devoted to the representation of plants of this group is rich in material records of investigation. This group was greatly enriched by the Stevens collection of Porto Rican fungi, fourteen thousand numbers, presented by Professor F. L. Stevens in 1916. The published "exsiccatae" in this group are well represented. The recent gift of her personal set of the Phycotheca Boreali-Americana by Mrs. Mary S. Snyder has increased the reference value of the herbarium for students of algae, of which it represents over 2,000 named species.

Entomology.—The entomology collections of the University include a reference series of 6,400 specimens, representing 1,600 common species; and the Bolter collection, given to the University by the executors of the estate of the late Andreas Bolter of Chicago, which now contains about 120,000 specimens representing over 16,000 species. The department has access, also, to the insect collections of the State Laboratory of Natural History, which contain 330,000 pinned insects and 26,000 vials and bottles of specimens in alcohol, mainly from Illinois.

Geology.—The department has adequate working collections which illustrate the principal phases of geology, including 10,000 hand specimens of rocks, 2,500 thin sections for microscopic study, over 12,000 minerals, and 60,000 fossils. In the corridors of the Natural History Building are exhibits of gems and precious stones, meteorites, polished ornamental stones, and specimens illustrating geologic structures, and the principal types of rocks, minerals, and fossils. The collections available for advanced students include those of Tyler McWhorter, Hertzner, and the greater part of the specimens collected both privately and for the State Geological Survey by A. H. Worthen.

Geography.—The geography collection consists of a complete file of the United States topographic maps; a collection of U. S. Geological Survey folios; combined contour maps representing the physiographic provinces of the United States; a collection of foreign topographic maps; rainfall and vegetation maps; relief models of all the continents and of smaller areas; and several thousand lantern slides.

Zoology.—The zoology collections illustrate the work in zoology and present a synoptical view of the zoology of the State. Most of them are placed in the museum room in the Natural History Building, and in adjacent corridors. The mounted mammals include a collection of the ruminants of the United States and representatives of the other orders of Mammalia except the Sirenia. The same orders are also represented by mounted skeletons. There are also a collection of mounted birds; the Barnum collection of birds' eggs; a collection of nests and eggs of Illinois birds; a series of mounted skins of larger species of cold-blooded vertebrates, both terrestrial and marine; mounted skeletons of typical representatives of the principal groups; alcoholic specimens; and casts: alcoholic specimens of all classes and orders of Mollusca, and dissections showing the internal anatomy of typical forms; several thousand shells, belonging to more than 2,000 species. (The collection of the Illinois aquatic species is nearly complete.) Several hundred dried specimens and alcoholics, and a series of Blaschka glass models of the lower invertebrates; several sets of Ziegler wax models and series of sections and other preparations showing the embryology of vertebrates and invertebrates.

In addition to the foregoing, the collections of the State Laboratory of Natural History are available for illustrative purposes, as well as for original investigation by advanced students.

College of Commerce and Business Administration

Commerce.—For its courses in industrial economics and commerce the University has a collection of the materials of commerce; lanterns and several hundred slides; political and industrial maps; and diagrams and stereoscopic views illustrating phases of commerce and industry. Most of the articles constituting the commercial museum are the gifts of the Philadelphia Commercial Museum and of private manufacturing and mercantile establishments.

College of Engineering

The several departments of the College of Engineering possess collections of historic materials drawn from their respective fields of practise. The department of railway engineering maintains exhibits of track rails typifying practise since the beginning of railway construction; many details employed in car and locomotive construction, historic and modern; and an extensive collection of photographs and prints. The department of mechanical engineering is the custodian of a 600 h.p. vertical triple-expansion engine, direct connected to an electric generator, a type of machine in common use for power station service twenty years ago. The departments of civil engineering and theoretical and applied mechanics maintain exhibits of tested specimens and structures.

All such material occupies temporary locations. No especially appointed building designed for its reception has thus far been provided.

College of Agriculture

The agricultural departments maintain collections illustrative of their work; among which are specimens of standard varieties of corn; wax models of fruit and vegetables; a horticulture herbarium; specimens of breeds of live stock; a collection of farm machinery; and exhibits of negatives and samples showing the progress of investigations with fruit, crops, and soils.

See further the description of the facilities for instruction and methods of work of the departments of agronomy, animal husbandry, dairy husbandry, and horticulture, under the College of Agriculture, in Part II.

Library School

The School has made a collection of books and pamphlets on library science; of library reports and catalogs; of mounted samples showing methods of administration in all departments; of labor-saving devices and fittings; and of photographs and lantern slides illustrating the history of books and libraries.

ADMINISTRATION

GOVERNMENT

The government of the University is vested by law primarily in a Board of Trustees, consisting of twelve members. The Governor of the State, the Superintendent of Public Instruction, and the President of the State Board of Agriculture are members *ex officio*. The other nine members are elected by the people of the State for terms of six years; the terms of three members expire every second year.

The administration of the University is vested by the Board of Trustees in the President of the University, the Vice-President, the Senate, the Council of Administration, the Faculties of the several colleges, and the Deans of the colleges and Directors of the schools.

The President is the administrative head of the University.

The Senate is composed of the full professors and those other members of the faculty who are in charge of separate departments of the various colleges and schools. It is charged with the direction of the general educational policy of the University.

The Council of Administration is composed of the President, the Vice-President, the Dean of the Graduate School, the Deans of Men and Women, and the Deans of the several colleges. It constitutes an advisory board to the President, and has exclusive jurisdiction over all matters of discipline. The Council does not determine educational policy; but when any matter arises which has not been provided for by common usage or by rule of the Senate and cannot be conveniently laid over until the next meeting of the Senate, the Council may act upon the same according to its discretion.

The Faculties of the colleges and schools of the University, composed of the members of the corps of instruction of these colleges and schools, have jurisdiction, subject to higher University authority, over all matters which pertain exclusively to these organizations.

The Dean of the Graduate School, the Deans of the several colleges, and the Directors of the schools are responsible for the carrying out of all University regulations within their respective departments.

DEPARTMENTS AND COURSES

For the purpose of administration the University is divided into several colleges and schools. These are not educationally separate, but are interdependent and form a single unit.

The colleges and schools are as follows:

- I. The College of Liberal Arts and Sciences
- II. The College of Commerce and Business Administration
- III. The College of Engineering
- IV. The College of Agriculture
- V. The Graduate School
- VI. The Library School
- VII. The School of Music
- VIII. The School of Education
- IX. The School of Railway Engineering and Administration
- X. The College of Law
- XI. The One-year Medical College

- XII. The College of Medicine
- XIII. The College of Dentistry
- XIV. The School of Pharmacy

The College of Liberal Arts and Sciences offers curriculums in:—(1) Philosophy and arts, including (a) the ancient classical languages; (b) the Romance languages; (c) the Germanic languages; (d) the English language and literature, including rhetoric and public speaking; (e) comparative literature; (f) comparative philology; (g) mathematics; (h) the political and social sciences: history, economics, political science, sociology; (i) Philosophical subjects: philosophy, psychology, education; (j) art and design. (2) General Science, affording opportunity to specialize in (a) astronomy; (b) geology, including mineralogy and geography; (c) physics; (d) chemistry; (e) botany, including bacteriology; (f) zoology; (g) entomology; (h) physiology. By the grouping of certain subjects students in this College are also offered opportunities for specific vocational and professional training as follows: (1) teaching and school administration; (2) journalism; (3) chemistry; (4) chemical engineering; (5) household science and household administration; (6) library administration; (7) law (combined course); (8) medicine (combined course); (9) engineering (combined course).

The College of Commerce and Business Administration offers curriculums in:—(1) General business; (2) commercial and civic secretarial service; (3) banking; (4) insurance; (5) accountancy; (6) general railway administration; (7) railway transportation; (8) commercial teaching; (9) foreign commerce; (10) industrial administration; (11) commerce and law.

The College of Engineering offers curriculums in:—(1) architecture; (2) architectural engineering; (3) ceramic engineering; (4) civil engineering; (5) electrical engineering; (6) mechanical engineering; (7) mining engineering; (8) municipal and sanitary engineering; (9) railway civil engineering; (10) railway electrical engineering; (11) railway mechanical engineering.

The College of Agriculture offers curriculums in:—(1) agronomy; (2) horticulture, floriculture, and landscape gardening; (3) animal husbandry; (4) dairy husbandry; (5) household science; (6) agricultural extension.

Military science and *physical training* are provided in all the undergraduate colleges in Urbana.

The Graduate School offers courses in:—philology, including the classical languages, Romance languages, Germanic languages, and English; mathematics; political and social sciences, including history, economics, sociology, and political science; philosophy, including psychology and education; physical sciences, including physics, chemistry, astronomy, and geology; biology, including botany, zoology, entomology, physiology, and bacteriology; engineering, including architecture, architectural engineering, ceramic engineering, civil engineering, electrical engineering, mechanical engineering, mechanics, mining engineering, municipal and sanitary engineering, and railway engineering; agriculture, including agronomy, animal husbandry, dairy husbandry, genetics, horticulture and floriculture, and household science.

The Library School offers a professional curriculum of two years in preparation for the librarianship, leading to the degree of Bachelor of Library Science.

The School of Music offers curriculums in vocal and instrumental music, leading to the degree of Bachelor of Music, and provides training in public school methods in music.

The School of Education enrolls, at the beginning of the junior year, students already registered in other colleges of the University who are preparing to teach, and directs their work for the remaining two years.

The School of Railway Engineering and Administration offers curriculums leading to the degree of Bachelor of Science in railway civil, railway electrical, and railway mechanical engineering; and also curriculums in railway transportation and in railway administration, leading to the degree of Bachelor of Arts.

The College of Law offers a curriculum of three years leading to the degree of Bachelor of Laws.

Students holding the bachelor's degree in arts or science may become candidates in this College for the degree of Doctor of Law (J.D.)

The One-year Medical College offers a curriculum in medicine in Urbana.

The College of Medicine (Chicago) requires for admission two years of college work in liberal arts and sciences, and offers a four-year curriculum; at the end of the first two years the degree of Bachelor of Science is conferred, and at the end of the four years the degree of Doctor of Medicine. The first year's work in medicine may be taken in the One-Year Medical College at Urbana.

The College of Dentistry (Chicago) offers in 1916-17 a three-year curriculum leading to the degree of Doctor of Dental Surgery. There is offered, also, in 1916-17, a four-year dental curriculum. Beginning in 1917-18 this four-year curriculum will be the only one offered. The new four-year curriculum leads to the same degree as the three-year curriculum which it displaces, namely, Doctor of Dental Surgery.

The School of Pharmacy (Chicago) offers a curriculum of two years leading to the degree of Graduate in Pharmacy, and a curriculum of three years leading to the degree of Pharmaceutical Chemist.

The Summer Session, of eight weeks, offered in 1916, courses in accountancy, agriculture, art and design, botany, chemistry, drawing (general engineering), economics, education, English, entomology, French, German, history, household science, Latin, library science, manual training, mathematics, mechanical engineering, mechanics (theoretical and applied), microscopical technics, music, physical training for men and for women, physics, political science, psychology, rhetoric, sociology, and zoology.

All the courses given in the Summer Session are of collegiate grade and may be counted toward the bachelor's degree. Certain advanced courses may be counted toward the master's degree.

ADMISSION

GENERAL STATEMENT

An applicant for admission to any of the colleges or schools of the University must be at least sixteen years of age. Candidates for admission to the College of Dentistry (Chicago) must be eighteen, and candidates for admission to the School of Pharmacy (Chicago) must be seventeen years of age.

Women are admitted to all departments under the same conditions and on the same terms as men.

Students may be admitted at any time, but should enter if possible at the beginning of the fall semester (in 1917, September 17), or at the beginning of the spring semester (in 1918, February 4). Students can seldom enter the College of Engineering to advantage except at the opening of the school year in September.

The entrance requirements for the *undergraduate departments*, including the colleges of LIBERAL ARTS and SCIENCES, COMMERCE AND BUSINESS ADMINISTRATION, ENGINEERING, and AGRICULTURE, and the SCHOOL OF MUSIC, amounting in each case to 15 units of high-school work, are stated in detail immediately below.

The requirements for the PROFESSIONAL DEPARTMENTS are as follows:

For the COLLEGE OF LAW, in addition to 15 units¹ of high-school credit, two years (60 semester hours)² of college work in arts, letters, and science in an institution having standards equal to those of the University of Illinois. (See page 203.)

For the LIBRARY SCHOOL, a bachelor's degree in arts, letters, and science from an institution having standards equal to those of the University of Illinois. (See page 185.)

For the COLLEGE OF MEDICINE (Chicago), in addition to 15 units¹ of high-school credit, two years (60 semester hours)² of college work in an institution having standards equal to those of the University of Illinois. (See page 207.)

For the COLLEGE OF DENTISTRY (Chicago), 15 units¹ of preparatory work in an accredited high school or academy or a state normal school, made up as follows: English, 3 units; mathematics, 2 units; physics, 1 unit; electives from lists B and C (see pages 68-69), 6 units; free electives, 3 units. (See page 232.)

For the SCHOOL OF PHARMACY (Chicago), graduation from an accredited high school with 15 acceptable units.¹ (See page 241.)

The School of Music requires collegiate standing in Piano, Voice, or Violin—that is, the equivalent of three years of preparatory study.

ENTRANCE REQUIREMENTS OF THE UNDERGRADUATE COLLEGES

High School Graduation

A candidate for admission *by certificate* must be a *graduate* of an accredited high school or other accredited school.

¹For definition of unit, see page 67.

²For definition of semester hour, see page 247.

An applicant who has not been graduated from an accredited school must pass entrance examinations in the following subjects, amounting to 5 units.¹

English Composition.....	1 unit
Algebra.....	1 unit
Additional subjects to be designated by the University authorities.....	3 units
Total.....	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from any accredited school.

Number of Units Required

Fifteen units of high school or other secondary-school work, in acceptable subjects (see Lists A, B, and C below), must be offered by every candidate.

No conditions are permitted. In other words, every student must offer at the time of admission 15 units in acceptable subjects, including the 6 units specifically prescribed for the undergraduate colleges (see List A below). It is provided, however, that a student who offers 15 acceptable units, including the 6 units of List A, but is deficient not to exceed 2 units in subjects prescribed only for the college or curriculum which he wishes to enter, may be admitted in that college or curriculum to courses for which he is fully prepared, subject to the requirement that the deficiencies in question shall be removed before he may register for a second year's work.

A student with deficiencies is not matriculated and must pay a tuition fee of \$7.50 a semester in addition to the regular incidental fee of \$12.00 a semester.

Prescribed Subjects

Summary

The 15 units offered for admission must include:

I. Certain subjects <i>prescribed alike for all curriculums</i> (see List A below).....	6 units
II. Certain subjects <i>prescribed in addition for the individual curriculum</i> which the student wishes to enter.....	1 to 4 units
III. Enough <i>electives from List B</i> (below) to make, with the subjects prescribed for all curriculums (List A) and those prescribed for the individual curriculum of the student's choice, a total of 12 units.....	5 to 2 units
IV. <i>Three additional units</i> , which may be chosen either from the list of List B or from the list of additional electives, List C (below).....	3 units
Total.....	15 units

Detailed Statement

I. Units Prescribed for All Curriculums

Of the 15 units required, the following 6 units, constituting List A, are *prescribed* for admission to the freshman class in *all* the undergraduate curriculums of the University, and no substitutes are accepted:

LIST A

English (composition and literature).....	3 units
Algebra ²	1 unit
Plane geometry.....	1 unit
Physics, or chemistry, or botany, or zoology, or physiology, with laboratory work.....	1 unit
Total.....	6 units

¹A unit is the amount of work represented by the pursuit of one preparatory subject, with the equivalent of five forty-minute recitations a week, through 36 weeks; or, in other words, the work of 180 recitation periods of forty minutes each, or the equivalent in laboratory or other practise.

²One and one-half units of high-school algebra are prerequisite for registration in all university courses in mathematics, and college mathematics is prerequisite for courses in physics and advanced chemistry. It is necessary, therefore, for students who intend to pursue curriculums involving college mathematics, physics, or advanced chemistry, including the curriculums in household science, medicine, chemistry, and chemical engineering, or curriculums in commerce and business administration in which university courses in mathematics are prescribed, to present for admission to the University, or make up after entrance, one-half unit of advanced algebra in addition to the required unit of List A.

II. Additional Prescriptions for Individual Curriculums

Of the 9 units that remain, certain others are *prescribed* for admission to *individual curriculums*, and in each case no substitutes are accepted for the curriculum in question. These additional prescriptions are as follows:

For the College of Liberal Arts and Sciences for the General Curriculum in Liberal Arts and Sciences, the curriculums in Journalism, Household Science, ¹ and Medicine, and the Curriculum preliminary to Law—	
Latin, Greek, French, German, or Spanish (both units in the same language).....	2 units
For the College of Liberal Arts and Sciences for the curriculum in Chemistry—	
Science.....	1 unit
German of French.....	2 units
For College of Liberal Arts and Sciences for the curriculum in Chemical Engineering—	
Science.....	1 unit
German.....	2 units
For the College of Commerce and Business Administration—	
ONE OF THE FOLLOWING OPTIONS	
(a) Latin, Greek, French, German, or Spanish (both units in the same language).....	2 units
OR	
(b) { Advanced algebra.....	½ unit
and	
{ Solid and spherical geometry.....	½ unit
OR	
(c) Science.....	1 unit
For the College of Engineering—	
Advanced algebra.....	½ unit
Solid and spherical geometry.....	½ unit
For the College of Agriculture—	
Science.....	1 unit
For the School of Music—	
Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
Musical.....	2 units

III. Electives from List B

Enough electives must be chosen from List B below to make, with the subjects prescribed for all curriculums (List A) and those prescribed for the individual curriculum of the student's choice, a total of 12 units.

It will be seen that the number of such electives from List B required for the several curriculums is as follows:

For the College of Liberal Arts and Sciences for the General Curriculum in Liberal Arts and Sciences, the curriculums in Journalism, Household Science, ^{1,2} and Medicine, ² and the Curriculum preliminary to Law.....	4 units
For the College of Liberal Arts and Sciences for the curriculums in Chemistry ² and Chemical Engineering ²	3 units
For the College of Commerce and Business Administration ² —	
Under option a.....	4 units
Under option b.....	5 units
Under option c.....	5 units
For the College of Engineering.....	5 units
For the College of Agriculture ¹	5 units
For the School of Music.....	2 units

LIST B		Units
Latin.....	36 to 144 weeks	1-4
Greek.....	36 to 108 weeks	1-3
French.....	36 to 144 weeks	1-4
German.....	36 to 144 weeks	1-4
Spanish.....	36 to 144 weeks	1-4
Italian ³	36 to 72 weeks	1-2
Norwegian ³	36 to 72 weeks	1-2
Swedish ³	36 to 72 weeks	1-2
Polish.....	36 to 72 weeks	1-2
English (4th unit).....	36 weeks	1
Advanced algebra ¹	18 weeks	½
Solid geometry.....	18 weeks	½
Trigonometry.....	18 weeks	½
History ⁴	36 to 144 weeks	1-4

¹ Students entering the curriculums in Household Science must also offer 1 unit in high-school physics, which is a prerequisite for Household Science 1, a prescribed freshman course.

² See footnote page 67.

³ Not accepted in satisfaction of the foreign language prescription of the College of Liberal Arts and Sciences or of the School of Music, but only as an elective.

⁴ Greek and Roman History, 1 unit; Medieval and Modern History, 1 unit; English History, ½ or 1 unit; American History, ½ or 1 unit.

Civics	18 or 36 weeks	$\frac{1}{2}$ -1
Economics and economic history	18 or 36 weeks	$\frac{1}{2}$ -1
Commercial geography	18 or 36 weeks	$\frac{1}{2}$ -1
Astronomy	18 weeks	$\frac{1}{2}$
Geology	18 or 36 weeks	$\frac{1}{2}$ -1
Physiography	18 or 36 weeks	$\frac{1}{2}$ -1
Physiology	18 or 36 weeks	$\frac{1}{2}$ -1
Zoology	18 or 36 weeks	$\frac{1}{2}$ -1
Botany	18 or 36 weeks	$\frac{1}{2}$ -1
Physics	36 to 72 weeks	1-2
Chemistry	36 to 72 weeks	1-2

IV. Additional Electives: List C

The remaining 3 units may be chosen either from List B above or from List C:

	LIST C ¹	Units
Agriculture	36 to 108 weeks	1-3
Bookkeeping	36 weeks	1
Business Law	18 weeks	$\frac{1}{2}$
Domestic Science	36 to 72 weeks	1-2
Drawing, art and design	18 or 36 weeks	$\frac{1}{2}$ -1
Drawing, mechanical	18 or 36 weeks	$\frac{1}{2}$ -1
Manual training ²	36 to 72 weeks	1-2
Music	36 to 72 weeks	1-2

Summary by Courses

The requirements stated above may be summarized by colleges and curriculums as follows:

For the *College of Liberal Arts and Sciences* for the *General Curriculum in Liberal Arts and Sciences*, the curriculums in *Journalism*, *Household Science*,^{3,4} and *Medicine*,³ and the *Curriculum preliminary to Law*:

I. List A (prescribed for all curriculums)	6 units
II. Special prescription for these curriculums— Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
III. Electives from List B	4 units
IV. Electives from either List B or List C	3 units
Total	15 units

For the *College of Liberal Arts and Sciences* for the curriculum in *Chemistry*:³

I. List A (prescribed for all curriculums)	6 units
II. Special prescriptions for this curriculum— Science	1 unit
German or French	2 units
III. Electives from List B	3 units
IV. Electives from either List B or List C	3 units
Total	15 units

For the *College of Liberal Arts and Sciences* for the curriculum in *Chemical Engineering*:³

I. List A (prescribed for all curriculums)	6 units
II. Special prescriptions for this curriculum— Science	1 unit
German	2 units
III. Electives from List B	3 units
IV. Electives from either List B or List C	3 units
Total	15 units

For the *College of Commerce and Business Administration*:³

OPTION A	
I. List A (prescribed for all curriculums)	6 units
II. Special prescription for this College under this option— Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
III. Electives from List B	4 units
IV. Electives from either List B or List C	3 units
Total	15 units

¹ The subjects named in List C must be taught in accordance with specifications which are set forth in the High School Manual. Further information may be had on application to the High School Visitor.

² In giving credits for manual training the University specifies that the work is to be done by competent teachers, as determined by inspection, and that credit shall not exceed one unit for 360 forty-minute periods of work, including the necessary drawing and shop work.

³ See footnote, page 67.

⁴ See footnote, page 68.

OPTION B

I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for this College under this option—	
Advanced algebra.....	$\frac{1}{2}$ unit
Solid and spherical geometry.....	$\frac{1}{2}$ unit
III. Electives from List B.....	5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

OPTION C

I. List A (prescribed for all curriculums).....	6 units
II. Special prescription for this College under this option—	
Science.....	1 unit
III. Electives from List B.....	5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

For the *College of Engineering*:

I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for this College—	
Advanced algebra.....	$\frac{1}{2}$ unit
Solid and spherical geometry.....	$\frac{1}{2}$ unit
III. Electives from List B.....	5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

For the *College of Agriculture*:

I. List A (prescribed for all curriculums).....	6 units
II. Special prescription for this College—	
Science.....	1 unit
III. Electives from List B.....	5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

For the *School of Music*:

I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for this School—	
Latin, Greek, French, German, or Spanish (both units in the same language).....	2 units
Music.....	2 units
III. Electives from List B.....	2 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

METHODS OF ADMISSION

The credits required for admission to the undergraduate departments, as detailed above, may be secured:

- (a) By examination.
- (b) By certificate from an accredited high school or other secondary school.
- (c) By transfer from another university or college of recognized standing.

(A) ADMISSION BY EXAMINATION

I. The University Entrance Examinations

The University entrance examinations are given at the University in Urbana (in Room 100 Commerce Building) three times in each year: in September, immediately before the opening of the fall semester; in January and February, shortly before the opening of the spring semester; and in July, during the Summer Session.

These examination cover all the subjects required or accepted for admission, as outlined in the "Description of Subjects Accepted for Admission" on page 82.

For programs of these three sets of examinations for 1917-18 see pages 74-75.

II. The Examinations of the College Entrance Examination Board

The certificate of the College Entrance Examination Board, showing a grade of 60 per cent or higher, will be accepted for admission in any subject in the lists on pages 67, 68 and 69 in the amounts there specified as being acceptable. These examinations will be held during the week of June 18-23, 1917.

All applications for examination must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application.

Applications for examination at points in the United States east of the Mississippi River, and at points on the Mississippi River, must be received by the Secretary of the Board at least two weeks in advance of the examinations, that is, on or before Monday, June 4, 1917; applications for examination elsewhere in the United States or in Canada must be received at least three weeks in advance of the examinations; that is, on or before Monday, May 28, 1917; and applications for examination outside of the United States and Canada must be received at least five weeks in advance of the examinations; that is, on or before Monday, May 14, 1917.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidate concerned, but only upon the payment of \$5.00 in addition to the usual fee.

The examination fee is \$5.00 for all candidates examined at points in the United States and Canada, and \$15.00 for all candidates examined outside of the United States and Canada. The fee (which cannot be accepted in advance of the application) should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

A list of the places at which examinations are to be held by the Board in June, 1917, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

III. The New York Regents' Examinations

Credits will be accepted, also, from the examinations conducted by the Regents of the University of the State of New York.

(B) ADMISSION BY CERTIFICATE FROM AN ACCREDITED PREPARATORY SCHOOL

Blank certificates for students wishing to enter the University by *certificate* from an accredited high school or academy may be had of the Registrar. They should be obtained early and should be filled out and sent to the Registrar for approval as soon as possible after the close of the high school year in June. Certificates received at the University after September 14 (in 1917) will be held until the arrival of the student unless such certificates are accompanied by an addressed envelope with a special delivery stamp.

Accredited Schools

The High School Visitor of the University visits and inspects, on request, high schools and other preparatory schools throughout the State. On the basis of his reports, approved by the Committee on Accredited Schools and by the Council of Administration, the University accredits all work which is found to be sufficiently well done. For a list of Accredited Schools, correct to January 1, 1917, see page 75. Not all the schools named in this list, however, are accredited for the same amount of work nor all for the same subjects. A student presenting a certificate from any one of these schools will be given entrance credit for all the subjects named therein *for which the school is specifically accredited as shown in the certificate of its accredited relation issued to the school by the University.*

Entrance credits will also be accepted on certificate from the following sources:

1. From schools accredited by the North Central Association of Colleges and Secondary Schools.
2. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools.
3. From schools approved by the New England College Entrance Certificate Board.
4. From high schools and academies registered by the Regents of the University of the State of New York.
5. From the state normal schools of Illinois and other state normal schools having equal requirements for graduation.

Foreign Students

Candidates for admission who come from foreign countries should bring complete official credentials. Certificates from oriental countries should be accompanied by certified translations. Upon arriving at the University foreign students should consult with the Adviser to Foreign Students, Room 153, Administration Building.

Examination in Rhetoric I

Those students who show by examination a proficiency in composition sufficient to qualify them for the second semester's work in rhetoric (Rhetoric 2) may be excused from the first semester's work (Rhetoric 1). An examination to test such proficiency will be given at 7:00 p. m., on the first day of registration (in 1917, September 17). The results of this examination will be announced the following morning. Students who try this examination should defer their registration until they learn whether or not they have passed in the examination.

(C) ADMISSION BY TRANSFER OF ENTRANCE CREDITS FROM OTHER COLLEGES OR UNIVERSITIES

A person who has been admitted to another college or university of recognized standing will be admitted to this University upon presenting a certificate of honorable dismissal from the institution from which he comes and an official statement of the subjects upon which he was admitted to such institution, provided it appears that the subjects are those required here for admission by examination or real equivalents. No substitutes will be accepted for the subjects *prescribed* for all colleges or by individual colleges as indicated above (pages 67 to 70).

For admission to advanced standing by transfer of college credits see page 73 below.

Students intending to transfer to the University of Illinois should send an official statement of their college credits, accompanied by a summary of their preparatory work and by a letter of honorable dismissal, to the Registrar as early in the summer as possible.

ADMISSION AS SPECIAL STUDENTS

Persons over twenty-one years of age may be admitted as special students, provided they secure (1) the recommendation of the professor whose work they wish to take, and (2) the approval of the dean of the college concerned. They must give evidence that they possess the requisite information and ability to pursue profitably, as special students, their chosen subjects, and must meet the special requirements of the particular college in which they wish to enroll, as stated below.

A special student is not matriculated and must pay a tuition fee of \$7.50 a semester in addition to the regular incidental fee of \$12.00 a semester.

No one may enroll as a special student in any school or college of the University for more than two years, except by special permission, application for which must be made through the dean of the college.

A person registered as a special student in one college and desiring to take a course in another college of the University must obtain the approval of the dean of the latter college.

Special Requirements of the Colleges and Schools

The College of Liberal Arts and Sciences requires a written application, accompanied by official certificates, indicating the character and extent of the applicant's preparatory work, and showing honorable dismissal from the school last attended. In order that action may be taken on such applications before registration they should be presented at least one week before the beginning of the semester.

The College of Engineering requires that applicants for admission as special students shall satisfy the entrance requirements in mathematics and English (one and one-half years of algebra, one year of plane geometry, one-half year of solid geometry, one year of English composition, and two years of English literature).

The College of Agriculture will receive non-matriculants twenty-one years old or over, provided that if deficient in English as measured by the requirements for matriculation they shall arrange to carry English as one subject until that deficiency is made good; and provided further, in the case of men, that they shall have had at least two years of experience in practical agriculture.

The Library School requires a written application, accompanied by official certificates, indicating the character and extent of the applicant's preparatory and college work. In order that action may be taken on such applications before registration day, they should generally be presented not later than July 1.

It is the practise of this School to admit as *special students* only those persons who, tho unable to meet the formal requirements for entrance, are substantially prepared for thoro and advanced work. Such persons must present evidence of possessing the requisite information and ability to pursue the chosen subjects profitably, and some substitute for the lacking requirements for entrance, such as approved library or teaching experience, or foreign travel. Preference will be given to those already engaged in library work, especially in Illinois libraries. Students thus admitted are expected to take all of the course prescribed for those who are candidates for the degree of Bachelor of Library Science, or failing that, as much of the prescribed work as they are prepared for.

ADMISSION TO ADVANCED STANDING

After matriculation, an applicant may secure advanced standing either by examination or by transfer of credits.

1. *By examination*—Advanced standing is granted only by examination unless the applicant is from an approved school.

2. *By transfer of credits*—Credits may be accepted for advanced standing from another university or a college or a junior college of recognized standing or from a state normal school. An applicant for advanced standing by transfer must present a certified record of work done in the institution from which he comes, accompanied by a letter of honorable dismissal. Students intending to transfer to the University of Illinois should send their credentials to the Registrar as early in the summer as possible.

Examinations for advanced standing are given without fee if taken within 60 days after matriculation; if taken later, a fee of \$5.00 is charged for each examination.

PROGRAMS OF UNIVERSITY ENTRANCE EXAMINATIONS

The University entrance examinations are given at the University in Urbana (in Room 100, Commerce Building) three times in each year: in September, immediately before the opening of the fall semester; in January and February, shortly before the opening of the spring semester; and in July, during the Summer Session.

The scope of these examinations is indicated in the "Description of Subjects Accepted for Admission," pages 82-84.

Admission to the examinations is by permit. Permits may be obtained of the Registrar, 156 Administration Building.

Entrance Examinations, July, 1917

History, 1, 2, 3, or 4 units ¹	Sat., July 7,	8:00 a.m.
Civics, $\frac{1}{2}$ unit or 1 unit.....	Sat., July 7,	10:00 a.m.
Physiology, $\frac{1}{2}$ unit or 1 unit ²	Sat., July 14,	8:00 a.m.
Commercial geography, $\frac{1}{2}$ unit or 1 unit.....	Sat., July 14,	8:00 a.m.
Physical geography, $\frac{1}{2}$ unit or 1 unit ²	Sat., July 14,	10:00 a.m.
Algebra, 1 unit or $1\frac{1}{2}$ units.....	Sat., July 21,	8:00 a.m.
Plane geometry, 1 unit.....	Sat., July 21,	8:00 a.m.
Solid and spherical geometry, $\frac{1}{2}$ unit.....	Sat., July 21,	10:00 a.m.
English literature, 2 units.....	Sat., July 28,	8:00 a.m.
English composition, 1 unit.....	Sat., July 28,	10:00 a.m.
Latin, 1, 2, 3, or 4 units.....	Sat., July 28,	8:00 a.m.
German, 1, 2, 3, or 4 units.....	Sat., July 28,	8:00 a.m.

The time for examinations in agriculture, astronomy, bookkeeping, botany,³ business law, chemistry,³ domestic science, drawing (freehand or mechanical), economics and economic history, the fourth unit in English, French, geology, Greek, music, physics,³ Spanish, trigonometry, and zoology,³ will be arranged with candidates.

Fall Examinations, September, 1917

Chemistry, 1 unit or 2 units ³	Mon., Sept. 10,	1:00 p.m.
Geology, $\frac{1}{2}$ unit or 1 unit.....	Mon., Sept. 10,	1:00 p.m.
Astronomy, $\frac{1}{2}$ unit.....	Mon., Sept. 10,	3:30 p.m.
Trigonometry, $\frac{1}{2}$ unit.....	Mon., Sept. 10,	3:30 p.m.
History, 1, 2, 3, or 4 units ¹	Tues., Sept. 11,	8:00 a.m.
English literature, 2 units.....	Tues., Sept. 11,	1:00 p.m.
English composition, 1 unit.....	Tues., Sept. 11,	3:30 p.m.
Latin, 1st unit, or 2d unit, or both.....	Wed., Sept. 12,	8:00 a.m.
Physics, 1 unit ³	Wed., Sept. 12,	8:00 a.m.
Physical geography, $\frac{1}{2}$ unit or 1 unit ²	Wed., Sept. 12,	10:30 a.m.
Algebra, 1 unit or $1\frac{1}{2}$ units.....	Wed., Sept. 12,	1:00 p.m.
Civics, $\frac{1}{2}$ unit or 1 unit.....	Wed., Sept. 12,	3:30 p.m.
Economics and economic history, $\frac{1}{2}$ unit or 1 unit.....	Wed., Sept. 12,	3:30 p.m.
Geometry, plane, 1 unit.....	Thurs., Sept. 13,	8:00 a.m.
Geometry, solid and spherical, $\frac{1}{2}$ unit.....	Thurs., Sept. 13,	10:30 a.m.
Physiology, $\frac{1}{2}$ unit or 1 unit ²	Thurs., Sept. 13,	10:30 a.m.
German, 1st unit, or 2d unit, or both.....	Thurs., Sept. 13,	1:00 p.m.
German, 3d unit, or 4th unit, or both.....	Thurs., Sept. 13,	3:30 p.m.
French, 1st unit, or 2d unit, or both.....	Thurs., Sept. 13,	1:00 p.m.
French, 3d unit, or 4th unit, or both.....	Thurs., Sept. 13,	3:30 p.m.
Spanish, 1st unit, or 2d unit, or both.....	Thurs., Sept. 13,	1:00 p.m.
Business law, $\frac{1}{2}$ unit.....	Thurs., Sept. 13,	1:00 p.m.
Commercial geography, $\frac{1}{2}$ unit or 1 unit.....	Thurs., Sept. 13,	3:30 p.m.
Latin, 3d unit, or 4th unit, or both.....	Fri., Sept. 14,	8:00 a.m.
Bookkeeping, 1 unit.....	Fri., Sept. 14,	8:00 a.m.
Botany, $\frac{1}{2}$ unit or 1 unit ³	Fri., Sept. 14,	8:00 a.m.
Zoology, $\frac{1}{2}$ unit or 1 unit ³	Fri., Sept. 14,	10:30 a.m.

The time for examinations in agriculture, domestic science, manual training, freehand or mechanical drawing, music, Greek, and the fourth unit in English, will be arranged with applicants.

¹Four units may be offered in history, made up from the following: Ancient history to 800 A. D., 1 unit; medieval and modern history, 1 unit; English history, $\frac{1}{2}$ unit or 1 unit; American history, $\frac{1}{2}$ unit or 1 unit.

²Notebook required for 1 unit; not required for $\frac{1}{2}$ unit.

³Notebook required.

Mid-Year Examinations, January and February, 1918

Chemistry, 1 unit or 2 units ¹	Wed., Jan. 30,	8:00 a.m.
Geology, $\frac{1}{2}$ unit or 1 unit.	Wed., Jan. 30,	8:00 a.m.
Astronomy, $\frac{1}{2}$ unit.	Wed., Jan. 30,	10:30 a.m.
Trigonometry, $\frac{1}{2}$ unit.	Wed., Jan. 30,	10:30 a.m.
History, 1, 2, or 3 units ²	Wed., Jan. 30,	1:00 p.m.
English literature, 2 units.	Thurs., Jan. 31,	8:00 a.m.
English composition, 1 unit.	Thurs., Jan. 31,	10:30 a.m.
Latin, 1st unit, or 2d unit, or both.	Thurs., Jan. 31,	1:00 p.m.
Physics, 1 unit ¹	Thurs., Jan. 31,	1:00 p.m.
Physical geography, $\frac{1}{2}$ unit or 1 unit ²	Thurs., Jan. 31,	3:30 p.m.
Algebra, 1 unit or 1 $\frac{1}{2}$ units.	Fri., Feb. 1,	8:00 a.m.
Civics, $\frac{1}{2}$ unit or 1 unit.	Fri., Feb. 1,	10:30 a.m.
Economics and economic history, $\frac{1}{2}$ unit or 1 unit.	Fri., Feb. 1,	10:30 a.m.
Geometry, plane, 1 unit.	Fri., Feb. 1,	1:00 p.m.
Geometry, solid and spherical, $\frac{1}{2}$ unit.	Fri., Feb. 1,	3:30 p.m.
Physiology, $\frac{1}{2}$ unit or 1 unit.	Fri., Feb. 1,	3:30 p.m.
German, 1st unit, or 2d unit, or both.	Sat., Feb. 2,	8:00 a.m.
German, 3d unit, or 4th unit, or both.	Sat., Feb. 2,	10:30 a.m.
French, 1st unit, or 2d unit, or both.	Sat., Feb. 2,	8:00 a.m.
French, 3d unit, or 4th unit, or both.	Sat., Feb. 2,	10:30 a.m.
Spanish, 1st unit, or 2d unit, or both.	Sat., Feb. 2,	8:00 a.m.
Business law, $\frac{1}{2}$ unit.	Sat., Feb. 2,	8:00 a.m.
Commercial geography, $\frac{1}{2}$ unit or 1 unit.	Sat., Feb. 2,	10:30 a.m.
Latin, 3d unit, or 4th unit, or both.	Sat., Feb. 2,	1:00 p.m.
Bookkeeping, 1 unit.	Sat., Feb. 2,	1:00 p.m.
Botany, $\frac{1}{2}$ unit or 1 unit ¹	Sat., Feb. 2,	1:00 p.m.
Zoology, $\frac{1}{2}$ unit or 1 unit ¹	Sat., Feb. 2,	3:30 p.m.

The time for examinations in agriculture, domestic science, manual training, freehand or mechanical drawing, music, Greek, and the fourth unit in English, will be arranged with applicants.

LIST OF ACCREDITED SCHOOLS

(Correct to January 1, 1917.)

The following high schools, having all the *prescribed* units, and enough others to make up the *required total* of 15 units, are in the list of fully accredited schools.

Not all of these schools, however, are accredited for the same amount of work, nor all for the same subjects. A student presenting a certificate from any one of these schools will be given entrance credit for all the subjects named therein *for which the said school is specifically accredited, as shown in the certificate of its accredited relation issued by the University.*

The High School Visitor of the University inspects high schools not previously accredited upon request, if the request is accompanied by a report of the school which shows that it merits such inspection. The University accredits all work which is thus found to be sufficiently well done. For further particulars address THE HIGH SCHOOL VISITOR, in care of the University of Illinois.

FULLY ACCREDITED SCHOOLS

School	Superintendent	Principal
ABINGDON	A. C. BUTLER	IRA M. WRIGLEY
ALBION	LEE V. MATHENEY	M. E. STEELE
ALEDO	F. N. TAYLOR	OLIVE HOSTETLER
HIGH SCHOOL		G. F. BAUMEISTER
DRURY ACADEMY		
ALTAMONT	S. J. McCOMIS	R. W. VALENTINE
ALTON		
HIGH SCHOOL	R. A. HAIGHT	B. C. RICHARDSON
WESTERN MIL. ACAD.		GEO. D. EATON
ALVIN (Ross Tp.)		C. L. KNECHLES
AMBOY TP.		GEO. N. BRADLEY
ANNA		
HIGH SCHOOL	C. A. MCGINNIS	C. A. HARPER
UNION ACADEMY		W. O. SHEWMAKER

¹Notebook required.

²Three units may be offered in history, made up from the following: Ancient history to 800 A. D., 1 unit; medieval and modern history, 1 unit; English history, $\frac{1}{2}$ unit or 1 unit; American history, $\frac{1}{2}$ unit or 1 unit.

³Notebook required for 1 unit; not required for $\frac{1}{2}$ unit.

School	Superintendent	Principal
ARCOLA TP.		S. R. ALLEN
ARLINGTON HEIGHTS TP.		O. R. ZOLL
ARMINGTON (<i>Little Tp.</i>)		OLGA HOFACKER
ARTHUR TP.		G. E. CLENDENEN
ASHLAND	C. H. DIXON	ANNIE NEALE
ASHLEY TP.		H. A. RITCHER
ASHTON	O. A. FACKLER	LAURA HOBART
ASSUMPTION TP.		J. O. STANBERRY
ASTORIA	H. M. ANDERSON	C. A. WHITESIDE
ATLANTA	DANIEL SHIRCK	MARGARET MCCUNE
ATWOOD TP.		G. W. SUTTON
AUGUSTA	A. E. DECKER	A. R. MATHENY
AUGUSTANA COLLEGE ACADEMY (<i>Rock Island</i>)		J. MAURITZSON
AURORA		
EAST HIGH SCHOOL	C. M. BARDWELL	K. D. WALDO
WEST HIGH SCHOOL	S. K. MCDOWELL	K. C. MERRICK
JENNINGS SEMINARY		BERTHA BARBER
AUSTIN HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	GEO. H. ROCKWOOD
AVERYVILLE HIGH SCHOOL (<i>Peoria</i>)		
AVON TP.		
BARRINGTON	E. S. SMITH	GERTRUDE HARVEY
BARRY	VAIL CORDELL	E. RUTH TIPPLE
BATAVIA	H. C. STORM	A. A. REA
BEARDSTOWN	H. G. RUSSELL	MRS. H. G. RUSSELL
BELLEVILLE TP.		H. G. SCHMIDT
BELLEFLOWER TP.		DEAN M. INMAN
BELVIDERE	L. A. REISNER	JOHN E. ALMON
BEMENT TP.	OTTO NEEDMAN	HARRY B. MUCH
BENTON TP.		C. W. HOUK
BIGGSVILLE TP.		C. C. SIMS
BISMARCK TP.		R. ARLYN WILLIAMS
BLOOMINGTON		
HIGH SCHOOL	J. K. STABLETON	WILLIAM WALLIS
ST. JOSEPH'S ACADEMY		SISTER M. MADELIENE
ST. MARY'S HIGH SCHOOL		REV. M. WELDON
BLOOM TP. (<i>Chicago Heights</i>)		E. L. BOYER
BLUE ISLAND TP.		J. E. LEMON
BOWEN	H. D. MITCHELL	EDITH WIGGLE
BOWEN HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	CHAS. I. PARKER
BRADFORD	F. W. DUNLAP	
BRIADLEY POLY. INST. (<i>Peoria</i>)		T. C. BURGESS, <i>Dir.</i>
BRIDGEPORT TP.		O. M. EASTMAN
BUDA TP.	CHAS. E. DECKER	C. B. BOULES
BUSINELL	T. W. EVERITT	BEULAH HARVEY
BYRON	H. V. LYNN	MARJORIE HULL
CAIRO		
HIGH SCHOOL	T. C. CLENDENEN	GEO. A. PETERSON
SUMMER HIGH SCHOOL		J. C. LEWIS
CALUMET HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	GRANT BEEBE
CAMBRIDGE	H. M. HINKLE	WM. B. MATHEWS
CAMP POINT	JESSE D. KNIGHT	VERONA ROCKWELL
CANTON	G. W. GAYLER	V. G. HELLER
CARBONDALE		
So. ILL. NOR. UNIV. H. S.		F. G. WARREN
CARLINVILLE	WM. HARRIS	
CARL SCHURZ HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	WALTER F. SLOCUM
CARLYLE	M. N. TODD	MIMA MAXEY
CARMI TP.		JOS. GERSBACHER
CARROLLTON	E. A. DOOLITTLE	DAVID N. CRIST
CARTERVILLE	O. A. TOWNS	J. L. CORZINE
CARTHIAGE		
HIGH SCHOOL	OREN A. BARR	E. G. MARSHALL
CARTHAGE COL. ACAD.		H. D. HOOVER, <i>Pres.</i>
CASEY TP.		WM. G. THOMPSON
CENTRAL HIGH SCHOOL (<i>Peoria</i>)	A. W. BEASLEY	W. T. VANBUSKIRK
CATLIN	GEO. WELLS	ETHEL EWERT
CENTRALIA TP.		ESTON V. TUBBS
CHAMPAIGN	W. W. EARNEST	LOTTIE SWITZER
CHARLESTON	DEWITT ELWOOD	E. B. FRESHWATER
CHATHAM	G. P. CHAPMAN	G. P. CHAPMAN
CHATSWORTH TP.		L. C. SMITH
CHENOA	A. B. HIETT	MAUDE FAIRFIELD
CHESTER	C. O. TODD	E. R. SAYRE
CHICAGO	JOHN D. SHOOP	
AUSTIN		GEO. H. ROCKWOOD
BOWEN		C. E. DEBUTTS
CALUMET		GRANT BEEBE
CARL SCHURZ		WALTER F. SLOCUM
CRANE R. T. (TECH.)		W. J. BARTHOLOF
ENGLEWOOD		J. E. ARMSTRONG
FENGER		THOS. G. HILL
HARRISON TECH.		FRANK L. MORSE
HYDE PARK		HIRAM B. LOOMIS

School	Superintendent	Principal
LAKE VIEW		B. FRANK BROWN
LANE TECH.		W. J. BOGAN
LUCY FLOWER TECH.		DORA WELLS
McKINLEY		GEO. M. CLAYBERG
MARSHALL		LOUIS J. BLOCK
MEDILL		AVON S. HALL
MORGAN PARK		LEWIS L. HALL
PARKER		WM. B. OWEN
PHILLIPS		SPENCER R. SMITH
SENN		BENJ. F. BUCK
TILDEN		EDWARD F. STEARNS
TULEY		FRANKLIN P. FISK
WALLER		J. E. ADAMS
CHICAGO PRIVATE SCHOOLS		FLORA J. COOKE
F. W. PARKER SCHOOL		J. J. SCHOBINGER
HARVARD SCHOOL		MEDORA H. GOOGINS, <i>Dean</i>
KENWOOD INSTITUTE		R. P. BATES
LATIN SCHOOL		SIMON NICHOLAS, S.J.
LOYOLA ACADEMY		HARRY D. ABELLS
MORGAN PARK PREPARATORY SCHOOLS		C. J. WILSON
NORTH PARK COLLEGE ACADEMY		GEO. J. LEAHY, S. J.
St. IGNATIUS ACADEMY		MRS. MARY G. WHITE
STARRETT SCHOOL FOR GIRLS		P. W. JOHNSON
UNIVERSITY HIGH SCHOOL		
CHICAGO HEIGHTS		E. L. BOYER
BLOOM TP. HIGH SCHOOL		H. H. BAUMGARDNER
CHILLICOTHE TP.		P. M. WATSON
CHRISMAN TP.		
CICERO		H. V. CHURCH
J. STERLING MORTON TP.		MARGARET HOWARD
CLAYTON	W. H. BREWSTER	EVERETT L. WALTERS
CLINTON	H. H. EDMUNDS	LIDA J. SMITH
COLFAX	P. M. HOKE	A. E. ARENT
COLLINSVILLE TP.		W. J. BARTHOLOF
CRANE, R. T. (TECH.) H. S. (<i>Chicago</i>)	J. D. SHOOP	C. E. SMALLEY
CRYSTAL LAKE	H. A. DEAN	MAX HARRIS
DALLAS CITY	L. C. FRENCH	W. C. BAER
DANVILLE	G. P. RANDLE	THOMAS DEAM
DECATUR	J. O. ENGLEMAN	R. L. SANDWICK
DEERFIELD TOWNSHIP HIGH SCHOOL		C. W. WHITTEN
DEKALE TP.		H. V. PORTER
DELAVER	M. R. STAKER	C. M. HIMEL
DES PLAINES (<i>Maine Tp.</i>)		J. O. HUFF
DIVERNON TP.		
DIXON		H. C. FIESTER
HIGH SCHOOL	C. I. BIXLER	HELEN BROWN
NORTH DIXON HIGH SCHOOL	H. H. HAGEN	IMANUEL HARBICH
DOWNER'S GROVE	G. C. BUTLER	
DRURY ACADEMY (<i>Aledo</i>)		H. T. McKINNEY
DRUMMER TP. (<i>Gibson City</i>)		MOLLIE D. BUTTS
DUNDEE	OSHER SCHLAIFER	J. G. STULL
DuQUOIN TP.		C. A. BROTHERS
DWIGHT TP.		NELLIE L. SMITH
EARLVILLE	L. B. MANN	K. D. WALDO
EAST HIGH SCHOOL (<i>Aurora</i>)	C. M. BARDWELL	E. D. ABBOTT
EAST MOLINE TP.		H. J. ALVIS
EAST ST. LOUIS	D. WALTER POTTS	GRACE READ
EDINBURG	D. F. NEATHERY	R. C. SAYRE
EDWARDSVILLE	CHAS. F. FORD	FRANK C. BRUCE
EFFINGHAM	O. C. BAILEY	J. E. RAIBURN
ELDORADO TP.		
ELGIN		W. L. GOBLE
HIGH SCHOOL	ROBT. I. WHITE	ERNEST P. CLARK, <i>Dean</i>
ELGIN JR. COLLEGE AND ACADEMY	JAMES M. GUNTROP	
ELIZABETH		V. C. PLUMMER
ELMHURST		DANIEL IRION, <i>Dir.</i>
HIGH SCHOOL	WM. H. EISENMAN	C. C. CONDIT
EVANGELICAL PROSEMINAR		CARL B. MOORE
ELMWOOD TP.		JAMES E. ARMSTRONG
ELPASO UNION	J. D. SHOOP	J. B. BOSWELL
ENGLEWOOD HIGH SCHOOL (<i>Chicago</i>)		F. D. THOMSON
EQUALITY TP.		HONTA S. BREDIN
EUREKA		DANIEL IRION, <i>Dir.</i>
TOWNSHIP HIGH SCHOOL		W. F. BEARDSLEY
COLLEGE PREP. SCHOOL		EDWARD W. MARCELLUS
EVANGELICAL PROSEMINAR (<i>Elmhurst</i>)		E. W. POWERS
EVANSTON		K. O. HOLLARD
TOWNSHIP HIGH SCHOOL		GEO. E. ANSPAUGH
EVANSTON ACADEMY		ESTER HEDQUIST
FAIRBURY TP.	H. D. WILLARD	THOS. G. HILL
FAIRFIELD		
FARMER CITY (<i>Moore Tp.</i>)	J. H. INMAN	
FARMINGTON	J. D. SHOOP	
FENGER HIGH SCHOOL (<i>Chicago</i>)		

School	Superintendent	Principal
FERRY HALL (<i>Lake Forest</i>)		JOHN W. RICHARDS
FISHER	P. L. LOWMAN	RUTH B. KING
FLORA (<i>Harter-Stanford Tp.</i>)		S. J. CURLEE
FORREST TP.		DEAN PARRILL
FREEPORT	S. E. RAINES	L. A. FULWIDER
FULTON	H. V. BALDWIN	MRS. PEARL B. FLATT
GALENA	KATHERINE H. OBEY	L. G. MYERS
GALESBURG	W. L. STEELE	A. W. WILLIS
GALVA	P. U. WHITE	MARGARET JACOBSON
GARDNER TP.		E. F. BOOTH
GENESEO TP.		F. J. MABREY
GENEVA	H. M. COULTRAP	LUCY E. CHURCH
GENOA	O. B. TAYLOR	LOUISE STUPP
GEORGETOWN TP.		O. P. REES
GIBSON CITY (<i>Drummer Tp.</i>)		H. T. MCKINNEY
GODFREY (<i>Monticello Seminary</i>)		MARTINA C. ERICKSON
GRANITE CITY	L. P. FROHARDT	W. F. COOLIDGE
GREENFIELD	WALTER C. SUFT	DANIEL GRAY
GREENUP	WARD N. BLACK	HORTENSE WICKARD
GREEN VALLEY	J. EARL HIETT	HENRIETTA EVANS
GREENVIEW	J. P. SCHEID	HAZEL ALKIRE
GREENVILLE	A. W. NIEDERMEYER	ALEX LONG
GRIGGSVILLE	THEO. C. MOORE	LOIS A. BROWNE
HALL TP. (<i>Spring Valley</i>)		E. L. BOST
HAMILTON	J. A. JOHNSTON	PHILENA CLARK
HARLEM CONSOLIDATED SCHOOL (<i>Rockford</i>)		EARL M. PALETT
HARRISBURG TP.		HARRY TAYLOR
HARRISON TECHNICAL HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	FRANK L. MORSE
HARTER-STANFORD TP. (<i>Flora</i>)		S. J. CURLEE
HARVARD	J. H. LIGHT	CHAS. O. HASKELL
HARVARD SCHOOL (<i>Chicago</i>)		J. J. SCHOBINGER
HARVEY (<i>Thornton Tp.</i>)		L. W. SMITH
HAVANA	T. E. SAVAGE	CLARA HOYT
HEBRON	M. S. HAMM	LOUISE SCHMIDT
HENRY	W. E. KING	EMMA PONZER
HERRIN TP.		H. G. SPEAR
HERSCHER TP.		
HEYWORTH	ROY SCHOFIELD	MILDRED BOND
HIGHLAND	C. L. DIETZ	MAMIE E. GRAFF
HIGHLAND PARK		
HILLSBORO	H. J. BECKEMEYER	J. M. AVERY
HINCKLEY	OMAR CASWELL	EMMA RICHARDSON
HINDSBORO UNION	O. V. SCHAEFFER	MARGARET GERKIN
HINDSDALE TP.		C. E. DOUGLASS
HITTLE TP. (<i>Armington</i>)		OLGA V. HOFACKER
HOMER TP.		G. B. WEISIGER
HOOPESTON	C. O. KLONTZ	W. R. LOWERY
HUME TP.		T. D. FOSTER
HUTSONVILLE TP.		J. A. ALEXANDER
HYDE PARK HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	HIRAM B. LOOMIS
ILLINOIS WOMAN'S COL. ACAD. (<i>Jacksonville</i>)		JOS. R. HARKER, <i>Pres.</i>
ILLIOPOLIS	W. P. SULLIVAN	LOUISE GATES
INDUSTRY TP.		R. H. MALCOMSON
JACKSONVILLE		
HIGH SCHOOL	H. A. PERRIN	T. W. CALLIGAN
ILL. WOMAN'S COL. ACAD.		JOS. R. HARKER, <i>Pres.</i>
ROUTT COLLEGE ACADEMY		REV. J. W. CROWE, <i>Pres.</i>
WHIPPLE ACADEMY		C. H. GIVAN
JENNINGS SEMINARY (<i>Aurora</i>)		BERTHA BARBER
JERSEYVILLE TP.		D. R. HENRY
JOHNSTON CITY	F. D. HARWOOD	HENRY C. KESSLER
JOHN SWANEY SCHOOL (<i>McNabb</i>)		B. D. LAWRENCE
JOINT TP. (<i>Tiskilwa</i>)		J. T. MYERS
JOLIET		
TOWNSHIP HIGH SCHOOL		J. STANLEY BROWN
ST. FRANCIS ACADEMY		SISTER M. FAUSTINA
J. STERLING MORTON TP. (<i>Cicero</i>)		H. V. CHURCH
KANKAKEE	F. N. TRACY	E. E. RICHARDS
KANSAS	R. B. HENLEY	RUTH LINDER
KEITHSBURG	R. C. HIETT	HELEN E. REAM
KENILWORTH (<i>New Trier Tp.</i>)		H. E. BROWN
KENWOOD INSTITUTE (<i>Chicago</i>)		MEDORA H. GOOGINS, <i>Dean</i>
KEWANEE	W. R. CURTIS	IRA F. RINKER
KINMUNDY	LAURA FISHER	FRANK C. FERGUSON
KNOXVILLE		
HIGH SCHOOL	G. G. LAFFERTY	C. E. LARSON
ST. ALBAN'S SCHOOL		REV. L. B. HASTINGS
LACON UNION	R. A. SCHEER	WILHELMINA SCHRIEBER
LAGRANGE (<i>Lyons Tp.</i>)		G. H. WILKINSON
LAHARPE	JUSTIN A. STEWART	JANE ROBERTSON

School	Superintendent	Principal
LAKE FOREST LAKE FOREST ACADEMY FERRY HALL		JOHN W. RICHARDS MARION COATS B. FRANK BROWN FLOY PAINTER
LAKE VIEW HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	
LANARK	J. H. MARTIN	
LANE TECHNICAL HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	
LASALLE-PERU TP. (<i>LaSalle</i>)		W. J. BOGAN T. J. MCCORMACK R. P. BATES GEO. B. WILLIAMS D. L. O'SULLIVAN C. G. KELLEY EFFIE MARKWELL WM. C. WILSON L. LEILA RENNER F. L. HOLCH BERT HUDGINS J. C. WIEDRICH ARVID P. ZETTERBERG ETHEL L. CHAPMAN L. W. CHATHAM P. J. DORR GEO. M. CLAYBERG BELLE FAIRFIELD O. H. EPPERSON E. D. LAWRENCE
LATIN SCHOOL (<i>Chicago</i>)		
LAWRENCEVILLE TP.		
LEMONT TP.		
LENA	F. P. DONNER	
LEROY	T. P. McLAMARRAH	
LEWISTOWN	C. B. SMITH	
LEXINGTON	THEODORE F. FIEKER	
LIBERTYVILLE	F. L. HOLCH	
LINCOLN	WM. H. HAWKES	
LITCHFIELD	D. H. WELLS	
LOCKPORT TP.		
LODA	P. T. WALTERS	
LOVINGTON TP.		
McHENRY	A. EDGAR NYE	
McKINLEY HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	
McLEAN	J. J. HAGAN	
McLEANSBORO	LOUIS UHE	
McNABB (<i>John Swaney School</i>)		
MACOMB HIGH SCHOOL	A. L. MANGUN	B. H. WATT W. P. MORGAN, <i>Pres.</i> H. H. JANSSEN SADIE B. ELLIS C. M. HIMEL ETHEL A. RANSON JOHN W. CARRINGTON
WESTERN ILL. NOR. ACAD.		
MADISON	J. W. JACKSON	
MAGNOLIA	URBAN McDONALD	
MAINE TP. (<i>Des Plaines</i>)		
MANFIELD	LLOYD GOHN	
MANTENO TP.		
MANUAL TRAINING HIGH SCHOOL (<i>Peoria</i>)	E. A. GARDNER	W. N. BROWN C. H. HERBALSHEIMER OREN COLEMAN A. H. FILLERS ERNA RELLER F. A. BAUMAN LOUIS J. BLOCK W. E. HARNISH HARRY L. RYAN NETTIE C. JENCKS H. B. BLACK J. E. WITMER A. D. PHILLIPS AVON S. HALL RUTH H. FRASER K. M. SNAPP J. J. THOMPSON MRS. ROSE CUTTING PEARL HICKMAN GRETCHEN SCHIFFBAUER E. P. NUTTING V. T. SMITH D. T. PETTY GLADYS EADE MARTINA C. ERICKSON GEO. E. ANSPAUGH
MARENGO		
MARION TP.		
MARISSA TP.		
MAROA TP.	L. R. BLOHM	
MARSELLES	E. A. COLLINS	
MARSHALL HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	
MARSHALL TP.		
MARTINSVILLE	HARVEY M. NICKELS	
MASON CITY	G. A. BUZZARD	
MATTOON	J. F. WILEY	
MAYWOOD (<i>Proviso Tp.</i>)		
MAZON TP.		
MEDILL HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	
MENDON TP.	G. A. HILLIER	
MENDOTA TP.		
METAMORA TP.		
METROPOLIS	F. A. SCHRADER	
MILFORD TP.	H. W. McCULLOCH	
MINONK	GUY R. FRENCH	
MOLINE	LEWIS A. MAHONEY	
MOMENCE	T. R. JOHNSON	
MONMOUTH	L. L. CALDWELL	
MONTICELLO TP.	H. D. ELLIS	
MONTICELLO SEMINARY (<i>Godfrey</i>)		
MOORE TP. (<i>Farmer City</i>)		
MORGAN PARK HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	JOHN H. HEIL
MORGAN PARK PREPARATORY SCHOOLS (<i>Chicago</i>)		HARRY D. ABELLS G. E. ROUND MAE E. GRANDON CORA MAXFIELD T. L. COOK MARY ROBERSON F. W. PROWDLEY J. T. DORRIS EDNA V. AMBORN W. P. McKEE, <i>Dean</i>
MORRIS	E. D. MARTIN	
MORRISON	W. E. WEAVER	
MORRISONVILLE	P. A. TATE	
MORTON TP.		
MOUND CITY	C. L. McCABE	
MOUNDS TP.		
Mt. CARMEL	A. S. ANDERSON	
Mt. CARROLL HIGH SCHOOL	J. H. BROWNING	
FRANCES SHIMER SCHOOL		
Mt. MORRIS HIGH SCHOOL	IRA R. HENDRICKSON	
Mt. MORRIS COL. ACAD.		
Mt. PULASKI TP.		
Mt. STERLING	M. L. TEST	J. F. NOFFSINGER L. F. FULWILER AGNES OLSON SILAS ECHOLS R. M. UPHOFF G. J. KOONS
Mt. VERNON TP.		
MOWEAQUA	M. L. McMANUS	
MURPHYSBORO TP.		

School	Superintendent	Principal
NAPERVILLE HIGH SCHOOL NORTHWESTERN COL. ACAD.	O. A. WATERMAN	V. BLANCHE GRAHAM C. J. ATTIG
NASHVILLE	W. C. FAIRWEATHER	W. W. KRUMSIEK W. L. HAGEN
NEOGA TP.		*J. H. TRINKLE
NEWMAN TP.	C. E. GIRHARD	E. M. JASPER
NEWTON		H. E. BROWN
NEW TRIER TP. (<i>Kenilworth</i>)	W. P. THACKER	OWEN B. WRIGHT
NOKOMIS		
NORMAL HIGH SCHOOL	C. F. MILLER	MILDRED FELMLEY
UNIV. HIGH SCHOOL	H. H. HAGEN	R. W. PRINGLE HELEN BROWN
NORTH HIGH SCHOOL (<i>Dixon</i>)		
NORTH PARK COLLEGE ACADEMY (<i>Chicago</i>)		C. J. WILSON
NORTHWESTERN COLLEGE ACADEMY (<i>Naperville</i>)		C. J. ATTIG H. E. KANRR
OAKLAND TP.		M. R. McDANIEL
OAK PARK AND RIVER FOREST TP. (<i>Oak Park</i>)		V. I. BROWN HELEN LYONS H. W. HOSTETTLER
OBLONG TP.	M. V. LANTHORN	
ODELL		
OLNEY TP.		
ONARGA TOWNSHIP HIGH SCHOOL GRAND PRAIRIE SEMINARY		S. E. LE MARR HUBERT PHILLIPS SUE L. WILSON CHAS. H. KINGMAN A. B. MORRIS D. B. FAGER W. E. ANDREWS J. R. EVERETT WILLIAM B. OWEN FLORA J. COOKE W. B. ROSE GRACE CURRIER O. J. BAINUM SARA MARKS RAYMOND ALLISON
OREGON	F. G. TAYLOR	
OTTAWA TP.		
PALATINE TP.		
PALESTINE TP.		
PANA TP.		
PARIS	T. J. BEECHER	
PARKER HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	
F. W. PARKER SCHOOL (<i>Chicago</i>)		
PAWNEE TP.		
PAWPAW	GAYLE HUFFORD	
PAXTON TP.		
PECATONICA	A. E. TRUAX	
PEKIN	ROBT. SMITH	
PEORIA ACADEMY OF OUR LADY AVERYVILLE HIGH SCHOOL BRADLEY POLYTECHNIC INST. CENTRAL HIGH SCHOOL MANUAL TR. HIGH SCHOOL	A. W. BEASLEY	SISTER MARIETTA H. E. ILER T. C. BURGESS, <i>Dir.</i> W. T. VANBUSKIRK W. N. BROWN J. M. WILSON BEULAH M. WOOD SPENCER R. SMITH MISS GLENN GRIGGS MR. COBLE ELSIE ENGLISH ARTHUR VERNER W. R. SPURRIER ORPHA JOHNSON CECELIA WHELPLEY J. E. WITMER
PEOTONE	J. M. WILSON	
PETERSBURG	H. D. EICKELBERG	
PHILLIPS HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	
PITTSFIELD	R. R. KIMMELL	
PLANO	H. L. TATE	
POLO	C. H. ANDERSON	
PONTIAC TP.		
PRINCETON		
PRINCEVILLE	W. M. LOY	
PROPHETSTOWN	H. L. BARR	
PROVISO TP. (<i>Maywood</i>)		
QUINCY HIGH SCHOOL ST. MARY'S ACADEMY	CHAS. M. GILL	ZENS L. SMITH MOTHER MARY PETRA R. W. TINK C. A. GARST PEARL MARSDEN E. R. SPENCER G. J. MUELLER J. O. MARBERRY HERMAN WINDMER LUELLE COWING
RANTOUL	W. A. JUSTICE	
RAYMOND	C. W. YERKES	
RICHMOND	OSWELL TREADWAY	
RIDGEFARM TP.		
RIVERSIDE TP.	A. F. AMES	
ROBINSON TP.		
ROCHELLE TP.		
ROCK FALLS	E. O. PHARES	
ROCKFORD HIGH SCHOOL HARLEM CONSOLIDATED SCHOOL ST. THOMAS SCHOOL	R. G. JONES	C. P. BRIGGS EARL M. PALLETT SISTER M. GABRIELLA
ROCK ISLAND HIGH SCHOOL AUGUSTANA COL. ACAD. VILLA DE CHANTAL	E. C. FISHER	A. J. BURTON J. MAURITZSON SISTER F. BORGIA ALFRED TATE S. T. WALLAGE M. P. WILKINS OTT WORLEY LAURA KNOWLES LILLIAN A. PURKHISER LILLIAN WARING MARY LANGWILL
ROLLO CONSOLIDATED		
ROODHOUSE	J. F. PURSIFULL	
ROSEVILLE TP.		
ROSSVILLE	I. A. SMOTHERS	
RUSHVILLE	C. E. KNAFF	
RUTLAND TP.		
ST. ANNE	E. L. KIMBALL	
ST. CHARLES	M. F. MCAULEY	

School	Superintendent	Principal
ST. ELMO	ERNEST T. JACKSON	L. GLENN MCCORMACK
ST. FRANCIS ACADEMY (<i>Joliet</i>)		SISTER M. FAUSTINA
ST. IGNATIUS ACADEMY		GEO. J. LEAHY, S. J.
ST. MARY'S HIGH SCHOOL (<i>Bloomington</i>)		REV. M. WELDON
ST. THOMAS SCHOOL (<i>Rockford</i>)		SISTER M. GABRIELLA
SALEM	H. J. BLUE	ROBT. WORTHINGTON
SANDWICH	W. W. WOODBURY	MAUD WEBSTER
SAVANNA Tp.		W. F. MARTIN
SAYBROOK	E. M. DEEM	JESSIE PATERSON
SENN HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	BENJ. F. BUCK
SHEFFIELD	LEWIS C. ROBESY	LEWIS C. ROBESY
SHELBYVILLE	A. F. LYLE	I. B. POTTER
SHELDON	J. H. ARMITAGE	GRACE RANDALL
SIDELL Tp.		V. W. MCINTIRE
SOUTHERN ILLINOIS NORMAL UNIV. HIGH SCHOOL (<i>Carbondale</i>)		F. G. WARREN
SPARTA Tp.		E. O. BOTTENFIELD
SPRINGFIELD		
HIGH SCHOOL	H. S. MAGILL, JR.	I. M. ALLEN
URSULINE ACADEMY		MOTHER ANTONIA
SPRING VALLEY		
HALL Tp.		E. L. BOST
STANFORD	C. W. MOORE	MRS. C. W. MOORE
STAUNTON	WM. E. ECCLES	E. A. MUIR
STERLING Tp.		E. T. AUSTIN
STOCKLAND Tp.		F. L. BENNETT
STOCKTON	J. C. MYERS	JOHN GUENTHER
STONINGTON	G. E. LOWRY	MIRIAM POST
STREATOR Tp.		W. D. WALDRIP
STRONGHURST	W. S. POPE	MYRTLE HASTINGS
SULLIVAN Tp.		T. H. FINLEY
SYCAMORE	O. E. PETERSON	A. G. UMBREIT
TAYLORVILLE Tp.		R. G. BEALS
THORNTON Tp. (<i>Harvey</i>)		
TILDEN HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	EDWARD F. STEARNE
TISKILWA (<i>Joint Tp.</i>)		J. T. MEYERS
TOLONO	MELLIE JOHN	ELIZABETH DONALDSON
TOLUCA Tp.		F. W. NICHOLS
TOULON Tp.		EUGENE MENDENHALL
TULEY HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	FRANKLIN P. FISK
TUSCOLA Tp.		J. C. HAMMOND
UNION ACADEMY (<i>Anna</i>)		W. O. SHEWMAKER
UNIVERSITY HIGH SCHOOL (<i>Chicago</i>)		F. W. JOHNSON
URBANA	A. P. JOHNSON	M. L. FLANINGAM
URSULINE ACADEMY (<i>Springfield</i>)		MOTHER ANTONIA
VANDALIA	J. F. HICKMAN	E. M. AUGSPURGER
VERMILION GROVE		
VERMILION ACADEMY		J. B. BENSON
VERMONT	J. R. BOUTON	MARIE R. WAY
VIENNA Tp.		M. T. VANCLEVE
VILLA DE CHANTAL (<i>Rock Island</i>)		SISTER MARY AGNES
VILLA GROVE Tp.		H. L. DYAR
VIRIDEN Tp.		CLYDE SLONE
VIRGINIA	H. S. STICE	LAURA MASON
WALLER HIGH SCHOOL (<i>Chicago</i>)	J. D. SHOOP	J. E. ADAMS
WALNUT	RUFUS GRIGSBY	E. A. LANSCH
WARREN	R. I. LEWIS	F. M. FOSTER
WARSAW	L. FAIRFAX	MR. BARDEUS
WASHBURN Tp.		E. W. ZEPFENFELD
WASHINGTON	PAUL SMITH	V. G. CATLIN
WATERLOO	GLENN O. BROWN	C. H. STRUCKMEYER
WATSEKA	L. W. HAVILAND	R. L. LORTON
WAUKEGAN Tp.		W. C. KNOELK
WAVERLY Tp.		L. W. RAGLAND
WENONA	HAROLD TICE	WALDO T. JOHNSON
WEST CHICAGO	H. H. KIRKPATRICK	RUTH CLOSSON
WEST HIGH SCHOOL (<i>Aurora</i>)	S. K. MCDOWELL	K. C. MERRICK
WESTERN ILLINOIS STATE NORMAL (<i>Macomb</i>)		W. P. MORGAN, Pres.
WESTERN MILITARY ACADEMY (<i>Allon</i>)		GEO. D. BATON
WESTFIELD Tp.		C. E. BATES
WESTVILLE Tp.		SHERMAN CASS
WHEATON		
HIGH SCHOOL	J. B. RUSSELL	ELLA M. GREGG
COLLEGE ACADEMY		WM. F. RICE
WHIPPLE ACADEMY (<i>Jacksonville</i>)		C. H. GIVAN
WHITE HALL	J. B. HENDRICKS	
WILMINGTON	J. W. BEDELL	W. D. STERRETT
WINCHESTER	CHAS. W. SMITH	OLIVE L. WELLS
WOOD RIVER	G. A. SMITH	C. E. RUSSELL
WOODSTOCK	R. W. BARDWELL	JESSIE E. JEWETT
WYOMING	C. W. PRATT	A. LAUDER
YORKVILLE	F. W. ACKERMAN	RUSSELL H. YANKIE

PARTIALLY ACCREDITED SCHOOLS

School	Superintendent	Principal
EAST ST. LOUIS LINCOLN HIGH SCHOOL		J. W. HUGHES

DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION

The amount of work in each of the foregoing subjects which corresponds to the minimum number of credits assigned is shown by the description of subjects below.

1. **AGRICULTURE.**—Courses in agriculture should be arranged for periods of not less than 36 weeks. Such a course may be accepted for one unit of entrance credit, and two such courses may be accepted for two units, provided the work covered by each course is so closely related in its parts as to constitute one of the generally accepted divisions now recognized in agricultural work. At least one-half the time should be devoted to laboratory work, and note-books should be presented.

2. **ALGEBRA, One and one-half units.**—Fundamental operations, factoring, fractions, simple equations, extraction of roots, radicals, quadratic equations and equations reducible to quadratic form, surds, theory of exponents, proportion and variation, logarithms, and the analysis and solution of problems involving these principles.

ALGEBRA, One unit.—Fundamental operations, factoring, fractions, simple equations, extraction of roots, radicals of second order, fractional exponents, variation and proportion, quadratics, including completing the square and simultaneous equations having one quadratic and one linear equation and quadratic systems of simple form.

See High School Manual for detailed outline of first year of algebra. *Students desiring to continue their study of mathematics in the University will need to present one and one-half units of algebra.*

3. **ASTRONOMY.**—In addition to a knowledge of the descriptive matter in a good text-book, there must be some practical familiarity with the geography of the heavens, with the various celestial motions, and with the positions of the conspicuous naked-eye heavenly bodies.

4. **BOOKKEEPING.**—The unit of work in bookkeeping for college entrance should consist of a working knowledge of both single and double entry bookkeeping for the usual lines of business. The student should be able to change his books from single to double entry and from individual to proprietorship. At least one set of transactions should be kept by single entry and at least two sets by double entry in which the uses of the ordinary bookkeeping books and commercial papers should be involved. The student should be drilled in the making of profit and loss statements and of balance sheets and should be able to explain the meanings of the items involved in both kinds of instruments. The work should be done under the immediate supervision of a teacher and the student should devote at least ten periods of not less than forty minutes full time in class each week for one academic year.

5. **BOTANY.**—A familiar acquaintance with the general structure of plants and of the principal organs and their functions, derived to a considerable extent from a study of the objects, is required; also a general knowledge of the main groups of plants; and the ability to classify and name the more common species. Laboratory note-books and herbarium collections should be presented.

6. **BUSINESS LAW.**—The amount of business law which is accepted is indicated by the ground covered in any of the ordinary text-books on the subject, such as Spencer's Elements of Commercial Law, Burdick's Business Law, and White's Elements of Commercial Law.

7. **CHEMISTRY.**—The instruction must include both text-book and laboratory work. The work should be so arranged that at least one-half of the time shall be given to the laboratory. The course as is given in the best high schools in one year will satisfy the requirements of the University for the one unit for admission. The laboratory notes, bearing the teacher's indorsement, must be presented as evidence of the actual laboratory work accomplished. Candidates for admission may be required to demonstrate their ability by laboratory tests.

8. **CIVICS.**—Such an amount of study of the American Government, its history and interpretation, as is indicated by any of the usual high-school text-books on civil government, is regarded as sufficient for one term. The work may advantageously be combined with the elements of political economy.

9. **COMMERCIAL GEOGRAPHY.**—The amount and character of the work accepted in this subject is indicated by the scope of such books as Redway's Commercial Geography, Adam's smaller book on the same subject, the text-books of Brigham, or Robinson, or Trotter's work.

10. **DOMESTIC SCIENCE.**—(a) An equivalent of 180 hours of prepared work with at least two recitation periods a week in foods. (b) An equivalent of 180 hours of prepared work with at least one recitation period a week in clothing. (c) An equivalent of 180 hours of prepared work with at least two recitation periods a week on the home. (Two periods of laboratory work are considered equivalent to one period of prepared work). Of the foregoing (a) will be accepted as a unit's work; or two half units taken from (a) and (b), or (a) and (c), or (b) and (c) will be accepted as a unit's work. The work is to be done by trained teachers with individual equipment, as determined by inspection.

11. **DRAWING.**—Free-hand or mechanical drawing, or both. Drawing-books or plates must be submitted. The number of credits allowed depends on the quantity and quality of the work submitted.

12. **ECONOMICS.**—The principles of economics, with economic history, as given in any good elementary text-book.

13. **ENGLISH COMPOSITION AND RHETORIC.**—Correct spelling, capitalization, punctuation, paragraphing, idiom and definition; the elements of rhetoric. The candidate will be required to write two paragraphs of about one hundred fifty words each to test his ability to use the English language. This work counts for one unit.

14. **ENGLISH LITERATURE.**—(a) Each candidate is expected to have read certain assigned literary masterpieces, and will be subjected to such an examination as will determine whether or not he has done so. With a view to a large freedom of choice, the books provided for reading are arranged in the following groups from which at least ten units are to be selected, two from each group. Each unit is here set off by semicolons.

I. The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; Virgil's Aeneid. The Iliad, the Odyssey, and the Aeneid should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

II. Shakespeare's Merchant of Venice; Midsummer Night's Dream; As You Like It; Twelfth Night; Henry the Fifth; Julius Caesar.

III. Defoe's Robinson Crusoe, Part I; Goldsmith's Vicar of Wakefield; Scott's Ivanhoe or Quentin Durward; Hawthorne's House of Seven Gables; Dickens' David Copperfield or Tale of Two Cities; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; George Eliot's Silas Marner; Stevenson's Treasure Island.

IV. Bunyan's Pilgrim's Progress, Part I; Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography (condensed); Irving's Sketch Book; Macaulay's Essays on Lord Clive and Warren Hastings; Thackeray's English Humorists; selections from Lincoln, including the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter to Horace Greeley, with a brief memoir or estimate; Parkman's Oregon Trail; either Thoreau's Walden or selection from Huxley's Lay Sermons; Stevenson's Inland Voyage and Travels with a Donkey.

V. Palgrave's Golden Treasury (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, Burns; Gray's Elegy in a Country Churchyard and Goldsmith's Deserted Village; Coleridge's Ancient Mariner and Lowell's Vision of Sir Launfal; Scott's Lady of the Lake; Byron's Childe Harold, Canto IV, and Prisoner of Chillon; Palgrave's Golden Treasury (First Series) Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's Raven, Longfellow's Courtship of Miles Standish, Whittier's Snow-Bound; Macaulay's Lays of Ancient Rome and Arnold's Sohrab and Rustum; Tennyson's Gareth and Lynette, Lancelot and Elaine, The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City.

(b) In addition to the foregoing the candidate will be required to present a careful, systematic study, with supplementary reading, of the history of either English or American literature.

(c) The candidate will be examined on the form and substance of certain books in addition to those named under (a). For 1917 the books will be selected from the list below. The examination will be of such a character as to require a minute study of each of the works named in order to pass it successfully. The list is:

Shakespeare's Macbeth; Milton's Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America, or Washington's Farewell Address and Webster's First Bunker Hill Oration; Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

The work outlined in (a), (b), and (c) counts for two units.

(d) The three units in English composition, rhetoric, and literature, as described above, are required for all students. A fourth unit may be obtained for one full year's additional work in the study of English and American authors.

15. *FRENCH, First year's work.*—Elementary grammar, with the more common irregular verbs. Careful training in pronunciation. About 100 pages of easy prose should be read. *Second year's work.*—Advanced grammar, with all the irregular verbs. Elementary composition, and conversation. About 300 pages of modern French should be read. *Third year's work.*—Intermediate composition, and conversation. About 500 pages of standard authors should be read, including a few classics. *Fourth year's work.*—Advanced composition, and conversation. Standard modern and classical authors should be read and studied to the extent of 700 pages.

16. *GEOLOGY.*—For one unit, the equivalent of a year's work as conducted in first-class high schools. Such a course includes the thorough study of one of the more abbreviated modern text-books of geology, a generous amount of laboratory work on specimens, maps, models, etc., and wherever possible, several field trips. When available, laboratory note-books should be presented.

17. *GEOMETRY.*—(a) *Plane Geometry.* Special emphasis is placed on the ability to use propositions in the solution of original numerical exercises and of supplementary theorems.

(b) *Solid and Spherical Geometry.* Applications to the solution of original exercises are emphasized.

18. *GERMAN.*—Pupils should be trained to understand spoken German and to reproduce freely in writing and orally what has been read. A thorough knowledge of grammar is expected. No attempt is made in what follows to give more than a general outline for the work of successive years. *First year's work.*—At the end of the year pupils should be able to read intelligently and with accurate pronunciation simple German prose, to translate it into idiomatic English, and to answer in German easy questions on the passage read. A few short poems may be memorized. Elementary grammar should be mastered up to the subjunctive. Easy prose composition rather than the writing of forms will be the test of this grammatical work in entrance examinations. *Second year's work.*—Only modern writers should be read, preference being given to material which has a distinctly German atmosphere and which lends itself to conversational treatment in the class room. The recitations should afford constant oral and written drill on the elementary grammar of the previous year. The beginner's book should be completed, but more importance is attached to accuracy and facility in simple modes of expression than to a theoretical knowledge of advanced syntax. *Third year's work.*—Most of the time should still be devoted to modern prose. There should be some work in advanced prose composition—based on German models—and the recitations should continue to afford abundant oral practise. Pupils ought by this time to understand spoken German. *Fourth year's work.*—At the end of this year a pupil should be able to read at sight any prose or verse of moderate difficulty, and be able to express himself orally or in writing with readiness and accuracy. Work in composition should take the form of free reproduction of portions of the texts studied rather than translation of English selections. The reading should be divided about equally between modern and classical authors.

19. *GREEK, First year's work.*—The exercises in any of the beginning books, and one book of the Anabasis or its equivalent. *Second year's work.*—Two additional books of the Anabasis and three of Homer, or their equivalents, together with an amount of Greek prose composition equal to one exercise a week for one year. *Third year's work.*—Three additional books of the Iliad, three of the Odyssey, and Books VI, VII, VIII of Herodotus, or an equivalent from other authors.

20. HISTORY.—One, two, or three units may be presented, to be chosen from the following list: Ancient history to 800 A. D., one unit; Medieval and modern history, one unit; English history, one-half or one unit; American history, one-half or one unit.

Examinations for entrance will be given in all these subjects. The examination for each unit is intended to cover one full year of high-school work.

21. LATIN, *First year's work*.—Such knowledge of inflections and syntax as is given in any good preparatory Latin book, together with the ability to read simple fables and stories. *Second year's work*.—Four books of Caesar's Gallic War, or its equivalent in Latin of equal difficulty; the ability to write simple Latin based on the text. *Third year's work*.—Six orations of Cicero; the ability to write simple Latin based on the text; the simpler historical references and the fundamental facts of Latin syntax. *Fourth year's work*.—Six books of Virgil's *Aeneid*, with history and mythology; the scansion of hexameter verse.

22. MANUAL TRAINING.—The requirement for one unit is the equivalent of 360 forty-minute periods in manual training following the syllabus prepared by the manual-training section of the High School Conference.

23. MUSIC.—At the present time, only a few high schools are accredited in music, and credit is therefore given in most cases by examination at the University. As fast as possible, schools offering acceptable work in music will be accredited therefor. In the examination for two units in *piano*, students are required to play the following or the equivalent: Simple scales and arpeggios at fairly rapid tempo; scales in double octaves at a moderate speed; Bach, two-part invention; Czerny, Op. 229; an easy sonata of Haydn, Mozart, or Beethoven. In the examination for two units in *voice*, students are required to sing the following or the equivalent: Simple scales and arpeggios; studies selected from Concone, Sieber, Panofka, and Paneron; songs selected from Schubert, Schumann, and modern composers. In the examination for two units in *violin*, students are required to play the following or the equivalent: Gordon's Foundation Studies; Hermann's Scale Studies; Wahlfahrt's Etudes, Book I; Kayser's Etudes; Pleyel, Duet; selections from Weiss and Blumenstengel; miscellaneous pieces by Dancila, Papini, Weidig, Sitt, etc.

24. PHYSICS.—One year's high-school work covering the elements of physical science as presented in the best of the current high-school text-books of physics. Laboratory practise in elementary quantitative experiments should accompany the text-book work. The candidates' laboratory notebook will be considered as part of the examination.

25. PHYSICAL GEOGRAPHY.—One year's work, fully covering such a text-book as those of R. S. Tarr and W. M. Davis. It is assumed that the recitations have been accompanied by several hours of laboratory work per week on various types of maps, models, etc., as well as by field excursions. Laboratory note-books should be presented for inspection.

26. PHYSIOLOGY.—For one-half unit: The anatomy, histology, and physiology of the human body and the essentials of hygiene, taught with the aid of charts and models to the extent shown in Martin's Human Body (Brief Course). For more than one-half unit, the course must include practical laboratory work.

27. SPANISH, *First year's work*.—Elementary grammar, including thoro drill in the irregular verbs; careful training in pronunciation, and translation of simple Spanish when spoken; reading of about 100 pages of easy prose; simple composition and dictation. *Second year's work*.—In addition to the foregoing, about 300 pages of modern prose; elementary syntax; dictation, composition, and translation of spoken Spanish continued.

28. TRIGONOMETRY.—The work should cover the field of plane trigonometry, as given in standard text-books, including the solution of right and oblique triangles. Special emphasis is placed upon the solution of practical problems, trigonometric identities, and trigonometric equations.

29. ZOOLOGY.—The instruction must include laboratory work equivalent to four periods a week for a half-year, besides the time required for text-book and recitation work. Note-books and drawings must be presented to show the character of work done and the types of animals studied. The drawings are to be made from the objects themselves, not copied from illustrations, and the notes are to be a record of the student's own observations of the animals examined. The amount of equipment and the character of the surroundings must determine the nature of the work done and the kind of animals studied; but in any case the student should have at least a fairly accurate knowledge of the external anatomy of each of eight or ten animals distributed among several larger divisions of the animal kingdom, and should know something of their life histories and of their more obvious adaptations to environment. It is recommended that special attention be given to such facts as can be gained from a careful study of the living animal. The names of the largest divisions of the animal kingdom, with their most important distinguishing characters, and with illustrative examples selected, when practicable, from familiar forms, ought also to be known.

GRADUATION—FIRST DEGREES

THE BACHELOR'S DEGREE

A bachelor's degree is conferred on any student who satisfactorily completes the curriculum described under one of the various colleges and schools, doing either the first three years, or the last year, of his work in residence at the University.

Residence Requirement

If the student is in residence at the University for one year only, that year's work must be taken in the college from which the degree is expected. No person will be recommended for a degree by the faculty of any college in the University unless he has been a regularly registered student in that college for at least one year.

Number of Hours Required

A candidate for a bachelor's degree must pass in the subjects marked *prescribed* in his chosen curriculum, and must conform to the directions given in connection with that curriculum in regard to electives. In the College of Liberal Arts and Sciences, the College of Commerce and Business Administration, and the College of Agriculture, credit for 130 hours is required for graduation. In the College of Engineering, in the College of Law, in the Library School, and in the School of Music, the candidate must complete the curriculum as laid down.

In order to receive his bachelor's degree a student must have secured grades of not less than 75 in subjects aggregating at least three-fourths of the work, prescribed or elective, required for such degree.

Military Science and Physical Training

The number of hours required includes, for men, five in military drill and tactics and two in physical training; and for women, three in physical training. Men excused from the military requirements, and women who do not take the course in physical training, must elect instead an equivalent number of hours in other subjects.

Thesis

In all cases in which a thesis is required,¹ the subject must be announced not later than the first Monday in November, and the completed thesis must be submitted to the dean of the proper college by June 1. The work must be done under the direction of the professor in whose department the subject belongs, and must be in the line of the curriculum for which a degree is expected. The thesis must be presented upon regulation paper; it is deposited in the library of the University.

Second Bachelor's Degree

A student who has already received one bachelor's degree may receive a second bachelor's degree, provided that all specified requirements for both degrees be fully met, and provided also that the curriculum offered for the second degree includes at least 30 semester hours not counted for the first degree.

¹ See requirements for graduation in the various colleges.

LIST OF FIRST DEGREES

1. The degree of **BACHELOR OF ARTS** is conferred on those who complete a curriculum in literature and arts, or certain curriculums in science, in the College of Liberal Arts and Sciences.

2. The degree of **BACHELOR OF SCIENCE** is conferred on those who complete a curriculum in the College of Engineering, in the College of Commerce and Business Administration, or in the College of Agriculture. This degree is conferred on a graduate of the College of Liberal Arts and Sciences who completes a curriculum in chemistry and may be conferred on graduates from other curriculums in this College on recommendation of the faculty. It may also be conferred on students who offer two years of acceptable college work for admission to the College of Medicine and complete the two years of scientific work in medical subjects and subjects preparatory to medicine which are offered in the Junior College; on the completion of the two additional years in clinical work offered in the Senior College, such students may receive the degree of Doctor of Medicine.

3. The degree of **BACHELOR OF LAWS** is conferred on those who complete the curriculum in the College of Law.

4. The degree of **DOCTOR OF LAW** is conferred on those who complete the curriculum in the College of Law, satisfying certain special requirements additional to those for the degree of Bachelor of Laws.

5. The degree of **BACHELOR OF LIBRARY SCIENCE** is conferred on those who complete the curriculum in the Library School.

6. The degree of **BACHELOR OF MUSIC** is conferred on those who complete one of the curriculums in the School of Music.

7. The degree of **DOCTOR OF MEDICINE** is conferred on those who complete the curriculum in the College of Medicine.

8. The degree of **DOCTOR OF DENTAL SURGERY** is conferred on those who complete the curriculum in the College of Dentistry.

9, 10. The degree of **GRADUATE IN PHARMACY**, or of **PHARMACEUTICAL CHEMIST**, is conferred on those who complete the shorter and the longer curriculums, respectively, in the School of Pharmacy.

HONORS AND COMPETITIONS

UNIVERSITY HONORS

The University gives public official recognition to such students as attain a high grade of scholarship by the following system of honors.

Preliminary Honors

Preliminary Honors are assigned at the completion of the sophomore year on the basis of the average of the grades received during the freshman and sophomore years in all studies except military and physical training. The number of persons to whom honors are awarded may not exceed one-tenth of the membership of the sophomore class. A failure in any subject disqualifies a student from receiving these honors. Preliminary Honors afford an opportunity for sophomores to secure recognition for high scholarship without waiting for graduation.

Final and Special Honors

(Candidates for the Degrees of B.S., B.Mus., LL.B., and B.L.S.)

Final Honors are assigned on graduation on the basis of the average grades received during the junior and senior years. The number of persons to whom final honors are awarded may not exceed one-tenth of the membership of the senior class. A failure in any subject during the junior and senior years disqualifies a student from receiving these honors. Final honors are designed especially to favor students whose preparatory education has been so imperfect as to prevent them from receiving preliminary honors.

Special Honors are awarded at the close of the senior year. No student may receive such honors who has not completed, before the beginning of his senior year, at least twenty hours' work in the subject, or group of allied subjects, in which the honors are proposed; he must complete thirty hours' work in the same subject, or group of allied subjects, by the end of his senior year, must do such other work as the professor in charge may assign, and must prepare an acceptable thesis. No student is eligible for special honors who, during the senior year, has received a grade of less than eighty per cent in any subject. Special honors are planned for especially brilliant students who prefer to concentrate their efforts upon a special course. A student may be a recipient of both final and special honors.

The Degree of Bachelor of Arts with Honors

The faculty of the College of Liberal Arts and Sciences have been authorized to recommend candidates for the degree of Bachelor of Arts *with honors* in a particular subject. Candidates for the degree with honors will be recommended by the faculty under the following conditions:

- (1) The student must have completed the work offered for his major with an average of not less than 90.
- (2) He must have completed the work offered for his minor with an average of not less than 85.
- (3) Each candidate is required to present a thesis in his major subject.
- (4) Especially poor or careless work in any other subject may, by vote of the faculty, cause the honor degree to be withheld.

The purpose of these honors is not to encourage premature specialization but to give special recognition to students who have pursued with success correlated courses of study, and to emphasize the importance, for scholarship in any subject, of thoro training in other related subjects. Candidates should announce their intention as early as possible in their college course and consult freely with the head of the department concerned in regard to the selection of their studies.

Candidates for the degree of Bachelor of Science in the College of Liberal Arts and Sciences are eligible for final and special honors under the regulations stated on page 87.

Freshman Honors

(College of Liberal Arts and Sciences)

At the close of each year a list is prepared of those members of the freshman class in the College of Liberal Arts and Sciences who have made an especially good record in scholarship. The names of such students are announced at an assembly of the College; notice is also sent in each case to the parent or guardian, and to the principal of the high school of which the student is a graduate.

List of Honors

The names of the students who received honors under the foregoing regulations during the academic year 1915-16 are published in Part VI of this Register.

DEBATING AND ORATORY

The University engages yearly in four intercollegiate debates, the teams for which are chosen in a series of competitive preliminaries to which all students are eligible. Through the generosity of Hon. William B. McKinley a gold watch-fob is presented to every speaker who represents the University, either in debate or in oratory.

THE *I. M. I.* DEBATING LEAGUE consists of the Universities of Illinois, Minnesota, and Iowa. It holds a debate at each university on the first Friday in December.

THE MIDWEST DEBATING LEAGUE consists of the Universities of Illinois, Michigan, and Wisconsin. It holds a debate at each university on the third Friday in March.

THE NORTHERN ORATORICAL LEAGUE, consisting of Northwestern University, Oberlin College, and the state Universities of Illinois, Iowa, Michigan, Minnesota, and Wisconsin, holds an annual contest on the first Friday evening in May. The contests for 1917 will be held on May 4, at Minneapolis, Minnesota. The winner receives the Lowden testimonial of one hundred dollars, and the speaker awarded second place, fifty dollars. The Illinois representative is selected in competitive contests open to all undergraduates.

THE INTERCOLLEGIATE PEACE ASSOCIATION holds annual state and inter-state oratorical contests to which representatives of this University are eligible. Orations must be upon some phase of the peace question. Cash prizes are offered in both contests.

A FRESHMAN-SOPHOMORE DEBATE and an INTER-SOCIETY DECLAMATION CONTEST are held yearly.

The Interscholastic Oratorical Prize

A medal of the value of twenty dollars, and two medals of the value of ten dollars, each, are offered annually by the University to the high schools of the State for the best orations delivered in a competitive contest between their rep-

representatives. This contest takes place in the spring at the time of the interscholastic athletic meet—in 1917, on May 18.

THE THACHER HOWLAND GUILD MEMORIAL PRIZE

Friends and admirers of Thacher Howland Guild, instructor and associate in English, 1904-14, have endowed the Thacher Howland Guild Memorial Prize, an annual prize of \$25, to be given to the undergraduate student submitting the poem or one-act play which in the opinion of a committee appointed by the department of English shows the greatest originality and literary merit; provided that the award may be withheld in any year if no production deemed worthy of a prize is submitted. The name of the winner of this prize is printed in the commencement program.

ST. PATRICK'S DAY PRIZE

Division One of the Ancient Order of Hibernians offered in the spring of 1916 and again in 1917 a prize of \$50 for the best essay by an undergraduate or a graduate student of the University of Illinois on a subject connected with ancient Irish literature, history, or archeology. The essays must be submitted one month before Commencement Day; the prize is awarded at Commencement.

THE BRYAN PRIZE

In 1908 Mr. William Jennings Bryan gave to the University the sum of two hundred fifty dollars, from the interest on which a prize of twenty-five dollars is offered biennially for the best essay on the science of government. The contest is open to all matriculated undergraduate students. The essays may not be less than three thousand nor more than six thousand words in length, and must be left at the President's office not later than the second Wednesday in May. The prize was offered for the first time in 1901. It will be offered next in 1917.

B'NAI B'RITH PRIZES

The Champaign and Urbana lodge of the Independent Order of B'nai B'rith has donated to the University the sum of fifty dollars, to be awarded in prizes to students of the University for essays on Jewish subjects. The sum named is the third of five annual contributions to be given for this purpose. For information in regard to the conditions governing the awarding of the prizes, address the Registrar, University of Illinois, Urbana, Illinois.

ARCHITECTURE

The Francis J. Plym Fellowship in Architecture

By the generosity of Mr. Francis J. Plym, of Niles, Michigan, a graduate of the University of Illinois of the class of 1897, the Trustees have been enabled to establish a fellowship for the advanced study of architecture. The stipend attached to this fellowship is \$1,000, awarded annually by competition in Architectural Design. The holder of the fellowship is required to spend a year in study and travel abroad. For further information address the Department of Architecture.

The Joseph C. Llewellyn Prize in Architectural Engineering

In June, 1913, Mr. Joseph C. Llewellyn, of Chicago, a graduate of the University of the class of 1877, established, for a period of four years, a prize of fifty dollars per annum for a problem in design, the competition being limited to students in architectural engineering.

The American Institute of Architects Medal

The American Institute of Architects offers annually a medal for award to the senior in the department of architecture whose development during the four years' course is the most consistent and best. In making the award the scholarship in all work is considered.

The Scarab Medal in Architecture

The Scarab Society of the department of architecture offers annually a bronze medal to be awarded during the second semester for the best solution of a problem in architectural design, the competition being limited to students in architecture.

THE PRIZE IN ARCHITECTURE of the American Academy in Rome is open for competition among qualified undergraduates and graduates of certain American architectural schools, including that of the University of Illinois. This prize grants three years of residence and travel abroad for the study of classic and renaissance architecture.

MILITARY CONTESTS AND PRIZES

The University Bronze Medals

Bronze medals typical of the University and its Military Department are awarded by the University to the members of the infantry companies and artillery and signal detachments which shall score the greatest number of points at the annual competitive drill, held at some time between May 15 and May 31. The members of the company rifle team making the highest score at gallery target practice are also awarded medals. The medals so awarded become the permanent property of the recipients. A complete roster of the winning organizations is published in the Annual Register of the University for the following year. (See Part VI.)

The University Gold Medal

The Board of Trustees provides annually a gold medal which is to be awarded at the annual competitive drill held near the close of the year, to the best drilled student, whose property the medal becomes. Each student must have matriculated in the University and must have completed one semester's work in Military 1 with a grade of not less than 85, and three semesters' work in Military 2 with a grade of not less than 90; and he must have an average standing of not less than 80 per cent in all of his other studies for the preceding semester, which standing shall be determined by the Registrar. The name of the winner is published in the Annual Register of the University for the following year. The award is made for excellence in the same details as in the Hazleton contest.

The Hazleton Prize Medal

Captain W. C. Hazleton provided in 1890 a medal, which is awarded, at a competitive drill held at some time between May 15 and May 31, to the best drilled student. Each competitor must have been in attendance at the University at least sixteen weeks of the current college year; must have had less than five unexcused absences from drill; and must present himself for competition in full uniform.

The award is made for excellence in:

1. Erectness of carriage, military appearance, and neatness.
2. Execution of the school of the soldier, without arms.
3. Manual of arms, with and without numbers.

The name of the successful competitor is published in the Annual Register of the University for the following year. He is given a certificate setting forth the fact, and may wear the medal until the fifteenth day of the May following, when he must return it for the next competition.

LECTURES AND OTHER GENERAL EXERCISES

A part of the instruction afforded by the University to its students is given through the medium of lectures by distinguished men and women from outside the University faculty and by means of exhibitions, recitals, and other exercises distinct from the regular courses of instruction. A partial list of these exercises for the calendar year 1916 follows. Lectures by members of the University faculty are excluded from this list.

GENERAL UNIVERSITY EXERCISES

Convocations

- Feb. 16. UNIVERSITY CONVOCATION: Address by GEORGE S. EDDY: "The present world situation."
- Apr. 19. UNIVERSITY CONVOCATION: Dedication of the CHEMISTRY LABORATORY. Address by Dr. W. R. Whitney, Columbia University.
- Sept. 20. Annual Convocation for Freshmen.
- Oct. 18. University Convocation: Addresses by Dean H. W. BALLANTINE and Dean FANNY C. GATES.

General University Lectures

- Feb. 14. Dr. JOSE M. GALVEZ, University of Chile: "Removing the barrier of language."
- Feb. 21. Mr. NORMAN ANGELL, London: "America's future foreign policy."
- Feb. 24. Mr. L. B. KITCHELL: "Glacier National Park."
- Mar. 29. Mr. LORADO TAFT, Art Institute, Chicago: "The sculpture of the Gothic and French renaissance."
- Apr. 5. Mr. LORADO TAFT: "Modern French sculpture."
- May 1. Mr. C. N. HUNT: "Yellowstone Park."
- May 2. Miss IRENE MANVY, "Hospital experiences at the front in France."
- May 3. Mr. LORADO TAFT: "Modern German sculpture."
- May 8. Hon. JOHN BARRETT, Director-General, Pan American Union: "South American banking."
- May 9. Professor GRANT SHOWERMAN, University of Wisconsin: "The modest modernist" (under the auspices of Phi Beta Kappa and Sigma Xi).
- May 15. Mr. LORADO TAFT: "American sculpture."
- May 25. Mr. BURR MCINTOSH.
- Oct. 17. Judge J. R. BANE: "The character of Abraham Lincoln."
- Nov. 9. Professor A. G. VANHECKE, Louvain, Belgium: "Life in the camp of the refugees."
- Nov. 27. Mr. LORADO TAFT: "The processes of sculpture."
- Dec. 12. Mr. LORADO TAFT: "The Greek tradition in sculpture."

The Star Lecture Course

- Jan. 18. Admiral ROBERT E. PERRY.
- Feb. 9. FRITZ KREISLER.
- Mar. 14. ISABELLA G. BEECHER.

- Apr. 4. Madame JULIA CLAUSSEN.
 Nov. 8. Madame JOHANNA GADSKI.
 Dec. 1. EVAN WILLIAMS.

University Orchestral Concerts

- Mar. 22. THE NEW YORK SYMPHONY ORCHESTRA.
 Apr. 10. THE NEW YORK PHILHARMONIC ORCHESTRA.
 May 10. THE MINNEAPOLIS SYMPHONY ORCHESTRA.
 Oct. 20. THE RUSSIAN SYMPHONY ORCHESTRA.
 Dec. 4. THE ST. LOUIS SYMPHONY ORCHESTRA.

Exhibitions

- Jan. 10-14. ARCHITECTURAL EXHIBITION. Student drawings exhibited at Washington, D. C., in connection with the annual convention of the American Institute of Architects.
 Jan. 17-27. ART EXHIBIT. Paintings and drawings by faculty members.
 Mar. 12-27. MUSEUM OF EUROPEAN CULTURE EXHIBIT. Collection of manuscripts and historical documents lent by Dr. B. L. Riese of Chicago.
 Mar. 19-Apr. 1. LIBRARY EXHIBIT. Collection of alphabets, books, maps, and music for the blind.
 Mar. 20-24. ARCHITECTURAL EXHIBITION. Preliminary drawings of the Plym Fellowship in Architecture.
 Mar. 27-31. ARCHITECTURAL EXHIBITION. Student work by the ten leading schools of architecture.
 Apr. 10-14. ARCHITECTURAL EXHIBITION. Private collection of etchings loaned by Mr. J. Andre Smith of New York City.
 Apr. 10-15. ART EXHIBIT. Collection of etchings, woodblock prints, and monotypes, by the print makers of Los Angeles, California.
 Apr. 16. FLORAL EXHIBIT. Exhibition of floral arrangements by the class in floral arrangements.
 May 1-5. ARCHITECTURAL EXHIBITION. Winning drawings for the Scarab medal in Architecture.
 May 11-13. PUBLIC SCHOOL ART EXHIBIT.
 May 11-20. STUDENT ART EXHIBIT.
 May 12. RAILWAY OPEN HOUSE. An exhibit of the laboratories for Railway Engineering, including the locomotive laboratory and the test cars, under the management of the Railway Club.
 May 15-24. ARCHITECTURAL EXHIBITION. Drawings of Mr. Roger C. Kirchhoff, winner of the Plym Fellowship in Architecture.
 May 15-24. ARCHITECTURAL EXHIBITION. Work done by students in the department of architecture.
 Sept. 25-29. ARCHITECTURAL EXHIBITION. Summer work done by the faculty.
 Sept. 26-29. VEGETABLE EXHIBIT.
 Oct. 2-6. ARCHITECTURAL EXHIBITION. Work done by freshmen in the department of architecture.
 Oct. 15. M. E. OPEN HOUSE. An exhibit of apparatus and appliances under the management of the Student Branch of the American Society of Mechanical Engineers.
 Nov. 12. CHRYSANTHEMUM SHOW.
 Nov. 20-27. ART EXHIBIT. American Paintings.
 Dec. 5-16. LIBRARY EXHIBIT. Books for Christmas buying.
 Dec. 13-15. FRUIT AND VEGETABLE EXHIBIT.

Entertainments

- Feb. 8. POST EXAM JUBILEE.
 Feb. 11. LITERARY SOCIETIES' DRAMATIC UNION: "A Winter's Tale."
 Feb. 17. DRAMATIC READING: MADAME GUERIN (under the auspices of the Alliance Francaise), "Three victims of the French Revolution: Madame Roland, Marie Antoinette and Charlotte Corday."
 Feb. 18 and Mar. 5. PLAYERS' CLUB: "You Never Can Tell."
 Mar. 4. UNIVERSITY BAND CONCERT.
 Mar. 11. SIR JOHNSTON FORBES ROBERTSON and his ENGLISH COMPANY: "The Passing of the Third Floor Back," "Hamlet."
 Mar. 31. ILLINOIS-MICHIGAN DEBATE.
 Apr. 12. CHORAL AND ORCHESTRAL SOCIETY CONCERT: "A Tale of Old Japan."
 Apr. 15. ILLINOIS UNION OPERA: "I'm Neutral."
 May 11. MAY POLE DANCE AND GIRLS' STUNT SHOW.
 May 12. INTERSCHOLASTIC ORATORICAL CONTEST. GLEE AND MANDOLIN CLUB CONCERT.
 May 13. INTERSCHOLASTIC CIRCUS.
 May 24. CONCERT, UNIVERSITY CHORISTERS.
 May 26. MASK AND BAUBLE: "As You Like It."
 June 10. BAND PROMENADE CONCERT.
 Nov. 13. PLAYER'S CLUB: "Rosalind." "The Workhouse Ward."
 Nov. 17-18. MASK AND BAUBLE: "A Pair of Sixes."
 Nov. 22. THEATRE DE LA RENAISSANCE FRANCAISE EN AMERIQUE: "Le Jeu de l'Amour et du Hassard."
 Nov. 24. DEUTSCHE VEREIN: "Der Dummkopf."
 Dec. 8. ILLINOIS-MINNESOTA DEBATE.
 Dec. 19. CHRISTMAS CONCERT, CHORAL AND ORCHESTRAL SOCIETY.

The Eddy Lectures Under the Auspices of the University Christian Associations

- Feb. 17-20. GEORGE SHERWOOD EDDY, Y. M. C. A. Secretary for Asia: "Ambition, a man's main motive." "The challenge of honest doubt." "Fight for character." "The Christian solution of life."

The Annual Ban Durant Lectures

- Mar. 26-31. PRESIDENT H. O. PRITCHARD, Eureka College: "What did Jesus teach about God?" "What did Jesus teach about man?" "What did Jesus teach about sin?" "What did Jesus teach about the kingdom?" "What did Jesus teach about discipleship?" "What did Jesus teach about himself?"

Short Courses and Conventions

- Jan. 10-22. SHORT COURSE IN CERAMIC ENGINEERING.
 Jan. 10-22. SHORT COURSE IN HIGHWAY ENGINEERING.
 Jan. 17-28 and Jan. 31-Feb. 5. SHORT COURSES IN HOUSEHOLD SCIENCE.

Addresses Before the School for Housekeepers

- Jan. 17-21. Mrs. T. VERNETTE MORSE, Chicago: "Value of an art Education in community and individual life." "Home furnishings and decorations as an element in character building." "Correlation of community interests and recreation movements." "Related vocations of the home, school, and business world." "Results of commercializing home occupations."
 Jan. 18-21. Mrs. E. W. DONOHUE, Chicago: Four lectures and demonstrations on foods.

- Jan. 20-21. Mrs. CECIL F. BAKER, Chicago: "Draping and design," "Market problems in buying clothing."
- Jan. 22. Mrs. H. M. DUNLAP, Savoy: "Problems in furnishing in the transition from the old home to the new."
- Jan. 24. Mrs. SAM CURRY, Camp Point: "The call of the farm woman."
Mrs. ANNA D. LIVINGSTON, Poplar Grove: "The flower garden as a factor in the home beautiful."
- Jan. 25. Mrs. J. H. WATKINS, Kankakee: "Town versus country life for the retired farmer."
- Jan. 26. Miss EVA BENEFIEL, Kankakee: "Exhibits at county fairs as aids in the educational development of a community."
- Jan. 26. Miss ANNA MAY PRICE, Springfield: "The children's hour."
- Jan. 27. Miss M. ANNA WILSON, Champaign: "Home economics work of the Young Women's Christian Association."
Mrs. FRED L. HATCH, Spring Grove: "Home economics work of the federated clubs."
Miss LAURA GONTERMAN, Edwardsville: "Home economics work of the State Fair School."
Mrs. H. A. McKEENE, Springfield: "Home economics work of the Farmers' Institute."
- Jan. 31-Feb. 5. COURSE FOR BAKERS
Dr. C. H. BAILEY, St. Paul: Twelve lectures and demonstrations on flours and bread.
- Jan. 25. CONVENTION OF AMERICAN WATER WORKS ASSOCIATION.
- Jan. 31-Feb. 5. SHORT COURSE IN BUSINESS.
- Feb. 23-24. ILLINOIS STATE ELECTRICAL ASSOCIATION.
- Mar. 8-10. DRAINAGE CONFERENCE.
- Apr. 6-8. ILLINOIS COUNTRY PRESS CONFERENCE.
- Apr. 18-21. ANNUAL MEETING OF THE AMERICAN CHEMICAL SOCIETY.
- May 5-6. ANNUAL MEETING OF THE BUSINESS OFFICERS OF MIDDLE WESTERN UNIVERSITIES.
- June 20-23. BETTER COMMUNITY CONFERENCE.
MR. GRAHAM TAYLOR, Chicago Commons: "The spirit of social service."
MR. SIDNEY A. TELLER, Director of Stanford Park, Chicago: "Recreational life of the community."
MR. WILLIAM A. WIRT, Superintendent of Schools, Gary, Indiana: "A balanced load program for child welfare agencies."
MEETING ILLINOIS FARMERS' HALL OF FAME: Unveiling of portrait of B. F. Harris I.
Hon. CARL VROOMAN, Assistant Secretary of Agriculture: "The new agriculture."
MR. HOMER TICE, Author of Tice Road Law: "The social significance of good roads."
MR. WARREN H. WILSON, New York City and SHAILER MATHEWS, President of the Federal Council of the Churches of Christ of America: "Religion and the Common Life."
MR. HARRY A. WHEELER, First President of Chamber of Commerce of the United States: "American ideals in commerce."
MR. LORADO TAFT, Art Institute, Chicago: American ideals in art."
- Nov. 13-17. STATE CONVENTION OF ILLINOIS FEDERATION OF WOMEN'S CLUBS.
- Dec. 7-8. CONVENTION OF ILLINOIS MUNICIPAL LEAGUE.

THE COLLEGE OF LIBERAL ARTS AND SCIENCES

College Assemblies

- Jan. 13. Mr. A. W. DOUGLAS, Vice President, Simmons Hardware Co.: "The preparation which business affords for public life."
 Feb. 4. Mr. JOHN MASEFIELD: "Literature as a career."
 Mar. 9. Dean HENRY M. BATES, University of Michigan Law School: "The profession of law, its development, present day criticisms, and needed readjustments."
 Apr. 6. Mr. JAMES SHERMERHORN, Editor of the Detroit Times: "Testing the beatitudes; a twentieth century adventure in journalism."
 Nov. 23. Professor JOEL STEBBINS: "Measuring the light of the stars."
 Dec. 14. Professor JACOB KUNZ: "Recent light on the ultimate construction of matter."

College Lectures.

- Jan. 10. Mr. FRANCIS GRIERSON: "How I developed my gift of improvisation." "The Awakening," with improvisations on the piano.
 Feb. 22-28. Professor A. J. CARNOY, University of Louvain, Belgium: "Races and languages of Belgium." "History of Belgium." "Belgian literature."
 Mar. 6-10. Dr. JAMES BROWN SCOTT, Secretary, Carnegie Endowment for International Peace: "Conditions of national and international peace."
 Mar. 16. Mr. G. LOWES DICKINSON, Cambridge University: "International reconstruction after the war."
 Apr. 4-10. Professor KUNO MEYER, University of Berlin; Director of Irish Learning, Dublin: "Celtic and Arthurian romance." "Celtic elements in Great Britain and Ireland." "Celtic influences in other European languages." "Early Irish civilization." "Ancient Irish literature." "Ancient Welsh literature." "Celtic influences in other literatures."

Chemistry

- May 1-5. Professor M. A. ROSANOFF, University of Pittsburgh: "The kinetics of some organic reactions." "Theory of fractional distillation."

Classics

- Apr. 17. Professor HENRY BROWNE, University College, Dublin: "Classical and medieval architectural requirements."

Education

- Mar. 21. Principal J. B. DAVIS, Grand Rapids, Michigan: "Vocational and moral guidance: a nine years experiment."
 Apr. 17-18. Professor E. P. CUBBERLEY, Stanford University: "The rural problems and the county unit," "Recent developments in the high schools of California." "The nature of the superintendent's work."
 Apr. 18. Superintendent H. B. WILSON, Topeka, Kansas: "The superintendent's chief business."
 Nov. 22. President W. A. JESSUP, University of Iowa: "School administration."

English

- Apr. 13. Professor JAMES O'NEILL, Head of the Department of Public Speaking, University of Wisconsin: "Public speaking as an academic discipline."
 June 5. Professor ERNEST BERNBAUM, Harvard: "The French Revolution and the English sentimentalists."

Romance Languages

- Jan. 11. MR. FRANCIS GRIERSON: "Reminiscences of French poets."
 May 18. Professor ERNEST H. WILKINS, University of Chicago: "Lorenzo de Medici and his circle."
 Dec. 11. Professor HENRI DAVID, University of Chicago: "La comedie de La Fontaine."

Sociology

- Feb. 10. MR. SIDNEY A. TELLER, Director, Stanford Park, Chicago: "The playground movement in America."

THE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

- Apr. 4-6 Miss ANNA E. REESE, J. J. Badnoch Co., Chicago: "Grain exchanges and the grading and warehousing of grain." "The transportation, marketing and price of grain." "Effects of the war on marketing grain and grain products."
 May 9-12. Professor MORITZ J. BONN, University of Munich: "International trade." "International credit."

*THE COLLEGE OF ENGINEERING**College Assemblies*

- Jan. 26. MR. K. LLEWELLYN, National Tube Company, Chicago: "The making of tubes." (Moving picture lecture).
 Feb. 10. C. H. BENJAMIN, Dean of the College of Engineering, Purdue University, Lafayette, Indiana: "Perpetual motion."
 Feb. 16. S. T. HENRY, (University of Illinois, '04), Vice-President, McGraw-Hill Publishing Company, New York: "The business side of engineering."
 Feb. 22. E. A. HITCHCOCK, Power Sales Engineer, E. W. Clark & Company, Management Corporation, Columbus, Ohio: "Hydro-electric developments in the south."
 Mar. 6. Dr. EDWARD P. HYDE, Director Nela Research Laboratory, Cleveland, Ohio: "The modern attack on the lighting problems."
 Mar. 8. MR. H. M. BIEBEL, Pittsburgh, Pennsylvania: "Electrical engineering design."
 Mar. 9. MR. BENJAMIN BROOKS, Engineer, International Clay Products Bureau, Kansas City, Missouri: "Clay products as applied to sewerage and sanitation."
 Mar. 16. MR. E. C. LOWE, Senior member of firm Lowe & Bollenbacher, Chicago, "Church architecture."
 Mar. 29. MR. H. I. SMITH, Mining Engineer, U. S. Bureau of Mines, University of Illinois. "Mining concentration and metallurgy of copper."
 Mar. 30. MR. R. W. LINDSEY, Chief Chemist, Pratt and Lambert, Inc., Buffalo, New York: "The manufacture of varnish."
 Apr. 3. Professor W. S. FRANKLIN, formerly of Lehigh University: "Some needed additions to the subject matter of theoretical mechanics as presented to engineering students."
 Apr. 4. Professor W. S. FRANKLIN: "The second law of thermodynamics from a vividly physical point of view." "The limitations of one-to-one correspondence in physics."
 Apr. 5. Professor W. S. FRANKLIN: "Some needed additions to the subject matter of theoretical mechanics as presented to engineering students."
 Apr. 6. Professor W. S. FRANKLIN: "Electric waves." "Some mechanical analogies in electricity and magnetism."

Apr. 7. Professor W. S. FRANKLIN: "Some Phenomena of fluid motion and the curved flight of a baseball." "The educational problems of an industrial community."

Apr. 12. Mr. IRVING FELLNER, Publicity Manager, Kawneer Manufacturing Company, Niles, Michigan: "The manufacture of store fronts."

Addresses Before the Freshman Class

Jan. 26. Mr. LLEWELLYN, National Tube Company, Chicago: "Processes of manufacture of butt and lap weld pipe."

Feb. 16. Mr. S. T. HENRY, Vice-President of the McGraw Publishing Company, New York: "If I were a freshman again."

Feb. 23. FILMS "Concrete on the farm." "Automobile construction." (Overland Company).

Mar. 15. FILMS. "Mining of asphalt in Trinidad and the making of roads."

May 10. MOTION FILMS. "Processes of manufacture of Ford automobiles."

Architecture

Mar. 30. Mr. R. D. LINDSEY, Chief Chemist, Pratt and Lambert Company, Buffalo, New York: "The manufacture and uses of paints and varnishes."

April 12. Mr. IRVING FELLNER, Publicity Manager, Kawneer Manufacturing Company, Niles, Michigan: "The design and construction of store fronts."

Nov. 23. Mr. E. A. STERLING, National Lumber Manufacturer's Assn.: "Wood."

Ceramic Engineering

May 24. Mr. A. E. HUCKINS, Manager, Sheldon Brick and Building Supply Company, Urbana, Illinois: "Problems of the face brick salesman."

Civil Engineering

Mar. 3. Mr. H. R. THOMAS, Associated with the Railroad Track Tests of the Joint Committee of the American Railroad Engineering Association and the American Society of Civil Engineers. Urbana, Illinois: "Methods of testing railroad tracks for stresses."

Apr. 21. Mr. A. F. ROBINSON, Bridge Engineer, Atchison, Topeka & Santa Fe Railroad, Chicago: "Selection of bridge types."

Electrical Engineering

Mr. C. R. UNDERHILL, Chief Electrical Engineer, Acme Wire Company, New Haven, Connecticut: "Electrical magnets."

E. C. HIGGINS, Educational Department, Western Electric Company, Chicago. "The establishment of a transcontinental telephone line."

Mining Engineering

Mar. 29. Mr. H. I. SMITH, Mining Engineer, Bureau of Mines, Urbana, Illinois: "Anthracite mining and preparation."

Nov. 10. Dr. H. M. BANE: "Mining in Siberia."

Mechanical Engineering

Jan. 13. Mr. O. A. MONNETT, American Radiator Company, Chicago: "Smokeless combustion."

Jan. 20. Mr. W. A. BLONCK, Blonck & Company, Engineers, Chicago. "Boiler practise in the United States and foreign countries."

Railway Engineering

Mr. W. H. HAUSER, Mechanical Engineer, Chicago and Eastern Illinois Railroad, Danville, Illinois: "Opportunities for technical graduates in railway service."

THE COLLEGE OF AGRICULTURE

Agricultural Extension

- Jan. 6. Mr. J. C. THORPE, President Illinois Motor Company, Urbana: "Care and operation of automobiles."
 Jan. 10. Mr. J. V. STEVENSON, Streator: "The farmer of today."
 Mar. 8. Hon. A. N. ABBOTT, Morrison: "Constructive influences in Illinois agriculture."
 May 24. Mr. J. V. STEVENSON, Streator: "The conduct of an agricultural student after graduation."

Agronomy

- Jan. 25. Mr. H. MENDELSON, Great Western Sugar Company: "Sugar beet industry of Colorado."
 Mar. 14. Mr. C. H. OATHOUT, Consulting Agriculturist of Champaign County, Illinois: "The work of the county adviser."

Animal Husbandry

- Feb. 10, 11, and 12. Dr. LAFAYETTE B. MENDEL, Yale University, New Haven, Connecticut: "General features of growth." "Changes in the food supply and their relation to nutrition." "Modifications and abnormalities of growth." "Some problems of growth."
 Apr. 6. Mr. T. W. JERREMS, President of the Chicago Live Stock Exchange: "Functions of a commission man."
 Apr. 13. Mr. J. E. POOLE of the *Chicago Live Stock World* and the *Breeder's Gazette*: "Live stock market reporting."
 May 16. Mr. W. S. CORSA, Whitehall, Illinois: "Conducting public sales of pure-bred live stock."
 May 18. Mr. S. T. KIDDOO, Vice-president of the Chicago Live Stock Exchange Bank: "Cattle financing."
 May 23. Mr. L. L. HELLER of the National Wool Warehouse and Storage Company, Chicago: "Wool marketing."

Landscape Gardening

- Jan. 20. TOM BENDELOW, Chicago: "Public golf courses and golf."
 Mar. 9. GEORGE E. BURNAP, Washington, D. C.: "The new landscape architecture."

Landscape Architecture

- Nov. 14. Mr. THOMAS H. MAWSON, London: "The replanning of Athens, Greece."

THE LIBRARY SCHOOL

- Jan. 4-5. Dr. E. C. RICHARDSON, Princeton University Library: "Paleography as a study for librarians." "Unusual methods of work used in Princeton university library."
 Mar. 20. Miss FRANCES CULLEN, New York City: "Artistic book binding."
 Apr. 27-28. Dr. ARTHUR E. BOSTWICK, Librarian, St. Louis Public Library: "The love of books as a basis for librarianship"; "A message to beginners."
 May 19-20. Miss HARRIET A. WOOD, School Librarian, Portland Public Library: "The school library department" (two lectures).
 Sept. 25. Mrs. IDA A. KIDDER, Librarian of the Oregon State Agricultural College: "The work of the Oregon State Agricultural College Library."

Nov. 14. Miss LUTIE E. STEARNS, formerly of the Wisconsin Library Commission: "The Library and the Ideal Democracy."

Nov. 21. Miss MAY MASSEE, Editor of the American Library Association Booklist: "The A. L. A. Booklist's selection for small libraries."

THE COLLEGE OF LAW

Mar. 8. Dr. J. B. SCOTT, Secretary, Carnegie Endowment for International Peace: Annual address before the Order of the Coif.

Mar. 24. Hon. GEORGE H. WILSON: "The legislature and the making of laws."

Nov. 22. Mr. FLETCHER DOBYNS, Chicago: "Trial of jury cases."

THE SCHOOL OF MUSIC

Jan. 19. Dr. MANNES AND MRS. MANNES, New York: Recital.

Oct. 30. Mrs. ALMA WEBSTER POWELL, Brooklyn, New York. Lecture-recital.

Dec. 11. Mr. THEODORE SPIERING: Violin recital.

THE SUMMER SESSION

June 20. SUMMER SCHOOL CONVOCATION.

June 26-Aug. 4. Dr. GEORGE A. L. SARTON, University of Ghent: "The history of science and civilization during the fifteenth and sixteenth centuries."

June 26-July 7. Mr. I. B. STOUGHTON HOLBORN, Oxford University: "Athenian life and our own." "The world's greatest drama: Attic tragedy." "Socialism and individualism: Athens and Sparta." "The charm of the fourth century sculpture." "Religion in Athens." "The contrast between classical and medieval art." "Greek philosophy and modern popular thought." "How to approach Browning." "The veiled personality." "Browning's optimism."

June 29-July 1. Professor VAUGHAN McCaughey, College of Hawaii: "Polynesia." "The natural history of Hawaii." "Hawaiian songs and legends."

July 5-6. COBURN PLAYERS: "The Yellow Jacket." "The Taming of the Shrew." "The Merchant of Venice."

July 10-20. Mr. ARCHER B. HULBERT, Mariette College: "The geography and psychology of the Alleghany barrier." "The paths of buffalo and Indian around and through the Alleghanies." "The grand advance from the Pennsylvania breeding-ground." "Through the portal of Cumberland Gap to the blue-grass region of Kentucky." "The Potomac route from Braddock's road."

July 31. Professor A. H. UPHAM, Miami University: "A century of books for children."

Aug. 6. Dr. M. C. TANQUARY, Crocker Land Expedition: "The Crocker Land Expedition."

ASSOCIATIONS, SOCIETIES, AND CLUBS

GENERAL ORGANIZATIONS

The Alumni Association

The Alumni Association is the general organization of the alumni of the University. The Association maintains an office at the University and publishes a periodical, the *Alumni Quarterly and Fortnightly Notes*. The alumni of the College of Medicine, the College of Dentistry, the School of Pharmacy, and the Library School have formed departmental organizations. Forty-one local alumni associations have been organized: thirteen in Illinois, two each in California, Missouri, New York, Ohio and Wisconsin, one each in Colorado, the District of Columbia, Idaho, Indiana, Iowa, Massachusetts, Michigan, Minnesota, North Dakota, Oregon, Pennsylvania, Tennessee, Texas, Utah, Washington, Brazil, India, and Japan. Regular University of Illinois alumni luncheons are held in fifteen cities. (See the Directory of Alumni Associations at the end of this volume.)

University of Illinois Union

The University of Illinois Union is an association of the men of the University, having for its general object the promotion of college spirit and good fellowship. All male students are eligible to active membership in the Union; alumni and members of the faculty may become associate members.

The Student Council

The Student Council, consisting of eight seniors and seven juniors, elected annually, has charge of certain undergraduate student activities.

The Woman's League

The Woman's League was organized to further the spirit of unity among the women of the University and to be a medium for the maintenance of high social standards. The administrative power is vested in an Advisory Board and an Executive Committee composed of representatives from the various women's organizations. Every woman in the University is, by virtue of her registration, a member of the League. The League manages a loan fund, supports a room in the Burnham Hospital, and provides the magazines for the Woman's Building.

Students' Hospital Fund

The Students' Mutual Benefit Hospital Fund provides ward hospital care for members who become ill and need such care for a period not to exceed four weeks during any semester. Members pay \$1.00 a semester. The Dean of Men is the Trustee of the Fund.

Literary Societies

The ADELPHIC, IONIAN, and PHILOMATHEAN societies for men, and the ALTHENAI, ATHENIAN, ILLIOLA, and GREGORIAN societies for women, meet weekly, on Fridays, and the JAMESONIAN Society (for women) on Tuesdays, throughout term time.

The Christian Associations

The present membership of the Young Men's Christian Association is 404. The Association building furnishes free, for the use of all students, lounging room and library, game rooms, parlors, organization rooms for committee meetings, correspondence tables, and check room. The building also contains dormitories to accommodate ninety men. A cafeteria, whose manager is on the pay roll of the Association, serves 450 to 500 persons daily. Religious meetings for men are held occasionally on Sunday afternoon. Thursday evening meetings are addressed by prominent faculty members on ethical topics. Student-led classes in Bible Study are promoted, the teachers receiving training in normal groups. An employment bureau managed by a special secretary, who maintains office hours every afternoon in the Association building, endeavors to help students to find work.

The Y. W. C. A. is housed in the Hannah McKinley building. Dormitory space is provided for fifty young women. There are parlors on the first floor for use of the women rooming in the house, a large assembly room, pianos, organization rooms, and correspondence tables. A bowling alley and modern dining room are in the basement. There are 427 members of the Y. W. C. A. In 1915-16 there were 540 young women enrolled in voluntary Bible Study and 99 in study of missions and social service. An employment bureau is maintained at the Y. W. C. A. to help University women to find employment.

At the opening of the college year the Associations endeavor to help new students to find desirable rooming and boarding places. A copy of the Students' Handbook, giving information about Urbana and Champaign, the University, and the various college organizations and activities will be sent free to prospective students. For this handbook or for further information address the general secretary of either Association.

HONORARY SOCIETIES

The honorary societies or fraternities named below are private intercollegiate organizations of students and graduates, having for their primary purpose the recognition and encouragement of excellence in scholarship in various departments of study. Election is in all cases made by the societies themselves in accordance with their own rules. The University assumes no responsibility for their elections.

Phi Beta Kappa

Each year a certain number of the ranking students of the senior class in the College of Liberal Arts and Sciences are elected to membership in the Phi Beta Kappa Society. The number is ordinarily limited to one-fifth of the total membership of the graduating class.

The Phi Beta Kappa Prize

Gamma of Illinois chapter of Phi Beta Kappa offers annually a prize of \$25.00 to that member of Gamma Chapter who at his graduation from the College of Liberal Arts and Sciences gives evidence of greatest promise as a scholar in the domain of liberal arts. The award is based on the following considerations: (a) Class room records; (b) other literary and scholarly activities in the University; (c) an essay, which may be a senior thesis or a term paper. At the discretion of the committee in charge, the award may be withheld if none of the essays appears worthy of the prize. Essays submitted in competition and all correspondence with reference to this prize should be addressed to the Secretary of the Phi Beta Kappa

Society, University of Illinois. The committee will not be limited in its award to those who have submitted papers specifically for this purpose or have otherwise given formal notice of candidacy. Special consideration will be given to theses deposited in the College Office by candidates for honors in the various departments.

Sigma Xi

Members of the senior class who give "promise of marked ability" in scientific investigations are eligible to membership in the Sigma Xi Society, which was founded to encourage research in pure and applied science.

Other Honorary and Professional Societies

Alpha Chi Sigma (Chemistry); Alpha Delta Sigma (Advertising); Alpha Gamma Rho (Agriculture); Alpha Kappa Psi (Commerce); Alpha Rho Chi (Architecture); Alpha Zeta (Agriculture); Beta Gamma Sigma (Commerce); Delta Sigma Rho (Oratory); Eta Kappa Nu (Electrical Engineering); Farm House (Agriculture); Gamma Alpha (Scientific); Graphomen (Journalism); Kappa Delta Pi (Education); Keramos (Ceramic Engineering); Ma-Wan-Da (Men's Senior Society); Medui (Pre-Medical); Omicron Nu (Household Science); Phi Delta Psi (Women's Senior Society); Order of the Coif (Law); Phi Alpha Delta (Law); Phi Delta Kappa (Educational); Phi Delta Phi (Law); Phi Lambda Upsilon (Chemistry); Pi Tau Sigma (Mechanical Engineering); Psi Mu (Architecture); Sachem (Men's Junior Society); Scabbard and Blade (Military); Scarab (Architecture); Sigma Delta Chi (Journalism); Sigma Mu Rho (Medical); Sigma Tau (Engineering); Tau Beta Pi (Engineering); Triangle (Civil Engineering); Tribe of Illini ("I" Men); U. L. A. S. (Landscape Architecture).

CLUBS AUXILIARY TO COURSES OF STUDY

In addition to the associations and societies of a general character described above, there are in each college a number of societies and clubs devoted to outside work of a literary, scientific, or technical nature auxiliary to the work of various departments of that college. Among these are the following.

In the COLLEGE OF LIBERAL ARTS AND SCIENCES: The Botanical Club, *le Cercle Francais*, *el Circulo Espanol*, the Chemical Club, the University of Illinois Section of the American Chemical Society, the Classical Club, *der Deutsche Verein*, the English Journal Club, the Geological Journal Club, the History Club, the Mathematical Club, the Oratorical Association, the Pen and Brush Club, the Philological Club, the Political Science Club, the Romance Journal Club, the Scandinavian Club, the Zoological Club.

In the COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION: The Commercial Club.

In the COLLEGE OF ENGINEERING: The Architectural Club, the Ceramic Engineering Club, the Civil Engineering Society, the Electrical Engineering Society, the Urbana Section of the American Institute of Electrical Engineers, the Student Branch of the American Society of Mechanical Engineers, the Student Branch of the American Institute of Mining Engineers, the Physics Colloquium, the Railway Club.

In the COLLEGE OF AGRICULTURE: The Agricultural Club, the Horticultural Club, the Household Science Club, the Landscape Gardeners' Club.

In the SCHOOL OF MUSIC: The University Choral and Orchestral Society, the University Glee and Mandolin Club, the University Military Band.

In the LIBRARY SCHOOL: The Library Club.

In the LAW SCHOOL: Inns of Court.

FRATERNITIES, SOCIETIES, AND CLUBS

National Fraternities.—Acacia; Alpha Chi Rho; Alpha Delta Phi; Alpha Kappa Psi; Alpha Sigma Phi; Alpha Tau Omega; Beta Phi; Beta Theta Pi; Chi Phi; Chi Psi; Delta Kappa Epsilon; Delta Tau Delta; Delta Upsilon; Kappa Alpha Psi; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Eta; Phi Gamma Delta; Phi Kappa; Phi Kappa Psi; Phi Kappa Sigma; Phi Kappa Tau; Phi Sigma Kappa; Psi Upsilon; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Pi; Tau Kappa Epsilon; Theta Chi; Theta Delta Chi; Zeta Beta Tau; Zeta Psi.

Sororities.—Achoth; Alpha Chi Omega; Alpha Delta Pi; Alpha Omicron Pi; Alpha Xi Delta; Chi Omega; Delta Gamma; Gamma Phi Beta; Kappa Alpha Theta; Kappa Kappa Gamma; Pi Beta Phi; Sigma Kappa.

Local Clubs.—Acanthus; Beta Pi; Beta Upsilon; Chi Beta; Chi Delta; Ilus; Iris; Psi Delta.

Interfraternity Organizations.—Men's Pan Hellenic Council; Girls' Pan Hellenic Association; Helmet; Yo Ma; Phi Delta Psi; Ku Klux Klan.

OTHER ORGANIZATIONS

Other students' societies include the following: Arkansas Club; Bushnell Guild; Chinese Students' Club; Beta Upsilon (Congregational guild); Comitatus (Democratic Club); Cosmopolitan Club; Culver Club; Dixie Club; Easterners' Club; Egyptian Club; H. H. Club; Hindusthani Association; Illinois Drama Federation; Inter-Collegiate Prohibition Association; Ivrim; Japanese Students' Club; Kansas Club; Komenian Society; Lambda Epsilon Phi (Republican Club); Lambkins' Club (interfraternity dramatic club); Lincoln League; Mask and Bauble (dramatic); Motorcycle Club; Scribblers' Club; Sewanee Circle; Shomeez (interfraternity Missouri club); Sigma Delta Theta (M. E.); Student Council.

UNDERGRADUATE SCHOLARSHIPS

(For circulars giving more detailed information concerning scholarships, apply to the Registrar of the University.)

COUNTY SCHOLARSHIPS

A law passed by the General Assembly of the State of Illinois at the session of 1905 and embodied in the General School Law of 1909 provides that one scholarship may be awarded annually to each county of the State. The holder thereof must be at least sixteen years of age, and a resident of the county to which he is accredited. No student who has attended the University of Illinois is eligible for a scholarship. The holder of a scholarship is relieved of payment of the matriculation fee (\$10.00, payable once, on entrance) and the incidental fee (\$24.00 a year) for four years in any department of the University other than the professional schools. The term "professional schools," as here used, includes the College of Law, the Library School, the College of Medicine, the College of Dentistry, and the School of Pharmacy.

A competitive examination, under the direction of the President of the University, and upon such branches of study as the President may select, is held upon the first Saturday in June of each year, at the county court house in each county by the County Superintendent of Schools. Questions for the examinations are furnished in advance to the County Superintendents.

The successful candidates in the examinations must then meet in full, either by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class, and must register the following September.

In case the scholarship in any county is not claimed by a resident of that county, the President of the University may fill the same by assigning to that county from some other county the student found to possess the next highest qualifications.

A student holding a scholarship who shall make it appear to the satisfaction of the President of the University that he requires leave of absence for the purpose of earning funds to defray his expenses while in attendance, may, in the discretion of the President, be granted such leave of absence, and may be allowed an extension of his scholarship for not more than two years (making not more than six years in all from the beginning of the scholarship). Such extension will not be granted unless the student has been in attendance at the University for at least one full semester, nor unless the student's average grade during the period of his attendance has been at least 80 per cent, exclusive of grades in military science and physical training.

GENERAL ASSEMBLY SCHOLARSHIPS

The same act by which the county scholarships described above were established also provides that each member of the General Assembly may nominate annually one eligible person from his district for a scholarship in the University, granting the same privileges as the county scholarships.

A member of the General Assembly who wishes to nominate a candidate for a scholarship should file the name and address of his nominee as early in the spring

as practicable and not later than June 1, with the President of the University and also with the County Superintendent of the county in which the nominee resides.

The nominee is then required, under the statute, (1) to pass the scholarship examination—the same that is given to competitors for the county scholarships on the first Saturday in June, under the County Superintendent; (2) to meet in full, either by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class; and (3) to register in the University the following September.

If a nominee fails to make a passing grade (70) in the scholarship examination he may not receive the scholarship. In this case notice will be sent to the member of the General Assembly who made the nomination, who is then entitled to nominate a second candidate. This second candidate is subject to all the requirements stated above; the scholarship examination will be given him at the University on the Wednesday preceding the fall registration days (in 1917, September 12).

A General Assembly scholarship may be extended under the same conditions as a county scholarship.

SCHOLARSHIPS IN CERAMIC ENGINEERING

The University offers annually, to each county in the State, one scholarship, awarded on the nomination of the Illinois Clay Workers' Association, to applicants who intend to follow the curriculum in Ceramic Engineering. These scholarships are good for four years and relieve the student from the payment of the matriculation fee (\$10.00, payable once, on entrance) and the incidental fee (\$24.00 a year).

The candidate must be at least sixteen years of age, must be a resident of the county for which he is nominated, and must meet *in full, before entering*, by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class.

SCHOLARSHIPS IN AGRICULTURE AND HOUSEHOLD SCIENCE

The University offers every year to each county in the State, except Cook and Lake, and to each of the first ten congressional districts, one scholarship for prospective students of agriculture in the College of Agriculture and one for prospective students of household science in the College of Liberal Arts and Sciences or the College of Agriculture.

Appointments to scholarships in agriculture are made by the Trustees of the University upon the recommendation of the Executive Committee of the Illinois Farmers' Institute; and to scholarships in household science upon the recommendation of the County Domestic Science Associations, or, for counties and districts in which there are no domestic science associations, on the recommendation of the Illinois Farmers' Institute. Persons who have already attended the University are not eligible, and no person will be assigned a scholarship unless his name is received by the Registrar of the University on or before the registration days of the semester with which the scholarship is to begin.

Candidates who are able to meet in full the requirements for admission to the freshman class are eligible to appointment at 16 years of age. Candidates who cannot meet these entrance requirements are eligible to appointment as special students (in the College of Agriculture) at 21 years of age.

Acceptable candidates, residents of counties or districts for which appointments have been made, not exceeding five in number from any one county or district, may be assigned to counties or districts for which no recommendations are made. The first nominee from each county or district, if duly qualified, is awarded the

scholarship at the time of registration. Other nominees must pay the regular fees on registration. Assignments to counties and districts for which there are no nominees registered are made on October 15, at which time the nominees so assigned to counties or districts other than their own receive rebates of the full amount of the matriculation and incidental fees paid.

The scholarships are good for two years and relieve the holders from the payment of the matriculation fee (\$10.00, payable once, on matriculation), the incidental fee (\$24.00 a year), and (in the case of special students) the tuition fee (\$15.00 a year). If, before a scholarship expires, the holder satisfies in full the requirements for admission to the freshman class of the college in which he or she is enrolled the term of the scholarship may be extended to four years from the date of the student's matriculation.

THOMAS J. SMITH SCHOLARSHIPS IN MUSIC

Captain Thomas J. Smith, of Champaign, Illinois, on September 17, 1914, conveyed to the Board of Trustees of the University of Illinois certain farm lands in Champaign County, in consideration whereof the Board of Trustees agreed to erect, as soon as might be feasible, a building for the music departments of the University of Illinois, to be known as the Tina Weedon Smith Memorial Building, and further to grant annually in the University of Illinois four (4) free scholarships in the music departments "for young women who may seek a musical education but who are unable to pay the customary charges for instruction in music"; these scholarships to be assigned by way of preference to candidates from Champaign County, but in case there are no candidates from said county to be assigned to young women from other counties in Illinois.

Regulations:

(1.) These scholarships shall be good for one year and shall exempt their holders during this period from matriculation, incidental, and music fees.

(2.) A person who during her year of tenure of one of these scholarships shall make an average grade of 85 in all subjects shall be eligible to reappointment to it for a second year, and on the same basis may be reappointed for a third year and a fourth year.

(3.) Each applicant for original appointment to one of these scholarships shall present a recommendation from the principal of a high school accredited to the University of Illinois, certifying that she is a graduate of the said high school, that she is a student of ability and promise, and that in the judgment of the principal of the high school she is unable to pay the customary charges for instruction in music.

(4.) Each applicant for original appointment to one of these scholarships shall pass the University entrance examinations in the following subjects: English composition and rhetoric, 1 unit; algebra, 1 unit; Latin or French or German, 2 units; music, 2 units; these examinations to be taken with the regular fall entrance examinations of the University. The scholarships shall be awarded to the candidates from Champaign County who make the highest average grade in these four examinations. In case the number of successful candidates from Champaign County is fewer than the number of available scholarships, the remaining scholarships shall be awarded to the candidates from other counties in Illinois having the highest average grade in these four examinations. But no scholarship shall be awarded to any candidate who fails to make a passing grade (70) in any one of the four subjects of the examination.

(5.) A candidate for original appointment must also satisfy in full the entrance requirements of the School of Music as stated in the University catalog, and must matriculate in that School for the fall semester immediately succeeding the examination.

(6.) No person who has attended the University of Illinois shall be eligible for appointment to these scholarships.

JOSEPH T. RYERSON AND SON SCHOLARSHIPS

(Mechanical or Railway Engineering)

The Joseph T. Ryerson and Son Scholarships of the American Railway Master Mechanics' Association, two in number, provide each for an annual stipend of \$300.00 to be paid to the beneficiary during the four years of his attendance in an engineering course at the University of Illinois, the University of Wisconsin, or Purdue University. Competitive examinations for these scholarships are conducted by the three universities in turn. The next appointment will be made for September, 1919, and the examination will be conducted in June, 1919, by the University of Illinois. Practical railroad experience is considered in the selection of candidates. Beneficiaries are expected to spend two years after graduation in the mechanical department of some railroad, and when financially able to do so to refund in convenient sums the amount of the scholarship for the benefit of others. For further information address Jos. W. Taylor, Secretary of the American Railway Master Mechanics' Association, 1112 Karpen Building, Chicago, or the registrar of any one of the three universities concerned.

MILITARY SCHOLARSHIPS

Students who have had three semesters of class instruction in military science and four semesters of drill practise are eligible for appointment as commissioned officers of the University Corps of Cadets. To those attaining this rank, special military scholarships, good for one year, and equal in value to the university incidental fees for the year, are open. The amount of these scholarships is paid the holders at the close of the academic year. Appointments in the Corps of Cadets are made on the recommendation of the Commandant of Cadets, confirmed by the Council of Administration.

OTHER SCHOLARSHIPS

For *scholarships in the College of Law*, see page 206.

For *scholarships in the Summer Session*, see page 201.

For *fellowships and graduate scholarships*, see under Graduate School, page 182.

BENEFICIARY AID

EDWARD SNYDER DEPARTMENT OF STUDENTS' AID

In 1899 Edward Snyder, Professor of the German Language and Literature, *Emeritus*, gave the University the sum of \$12,000, to be lent to worthy students to enable them to finish their courses in the University.

This fund is available for junior, senior, and graduate students who need aid to remain and complete their work. The minimum loan made is fifty dollars (\$50); the maximum loan is one hundred and fifty dollars (\$150) to a junior, and two hundred dollars (\$200) to a senior or graduate student. Notes of hand are taken for the amount of the loans, with 5 per cent interest. The maximum time limit is for juniors three years and for seniors and graduates two years from the ensuing thirtieth of June.

Loans are made only to matriculated students who have attained at least the full rank of junior, who have been in residence at the University at least one year, who are at the time students in residence at the University, and who have declared their intention to graduate.

In recommending loans, preference is given to those students who are most advanced in their university work, who have shown themselves most assiduous and successful in their studies, and have shown habitual economy in living. No distinction is made on account of sex or course of study. A loan will not be recommended for any student who is believed to have been financially or morally delinquent in any respect.

Applications for loans must be made in writing and addressed to the Chairman of the Loan Fund Committee.

CLASS OF 1895 LOAN FUND

A fund of \$100.00 was established by the class of 1905, to be lent to needy and deserving students. According to the conditions of the gift, the sum of fifty dollars is to be lent annually, and the benefit of the fund is open only to students who, at the time of application, are members of the freshman class. The loan bears interest from the time the recipient leaves the University, and is due one-half in five years and one-half in six years after matriculation. The fund is in charge of the Loan Fund Committee of the Council of Administration. Applications should be made in writing and should be addressed to the Chairman of the Committee.

GRADUATE CLUB LOAN FUND

A fund of \$75 was established by the members of the Graduate Club in 1907-1908, for the benefit of graduate students. Its administration is in the hands of the Loan Fund Committee of the Council of Administration. Applications should be made in writing and should be addressed to the Chairman of the Committee.

WOMAN'S LEAGUE LOAN FUND

In December, 1910, the Woman's League of the University gave to the University the sum of \$409.44 to be known as the Woman's League Loan Fund. This fund is available for any woman matriculated in the University and is administered in the same way as the Snyder Loan Fund.

WILLIAM B. M'KINLEY LOAN FUND

In September, 1912, the Hon. William B. McKinley of Champaign, Illinois, turned over to the University notes aggregating something more than \$12,000, this amount as it is collected to be used as a loan fund for undergraduate men. In making the donation, Mr. McKinley stipulated that loans should be made to students upon their own personal notes, and that a preference should be shown in making these loans to upperclassmen. The notes draw interest at 5 per cent and become due two years after the student's graduation. Applications for loans should be made in writing and should be addressed to the Chairman of the Loan Fund Committee.

HENRY STRONG LOAN FUND

Mr. Gordon Strong, of Chicago, trustee of the Henry Strong Educational Fund, has for 1916-17 offered the University \$250 to be loaned to self-supporting students of high scholastic attainments. The loan bears interest at 4 per cent and is payable within one year after graduation. The fund has been loaned to two students, each of whom received \$125.

MARGARET LANGE JAMES LOAN FUND

In 1915 President Edmund J. James established the Margaret Lange James Loan Fund in memory of his wife. The original fund (\$5,000) given by President James has been supplemented by gifts from other persons, and the fund now amounts to about \$5,650.

Loans from this fund may be made to matriculated students, preferably women, who have been in residence at the University at least one year, who have attained at least junior standing, and who are at the time of application students in residence, who have declared their intention to graduate. In recommending loans, only students of promise and good scholastic standing are considered, and, other things being equal, preference is given to those who are the farthest along in their University work. A loan is not recommended for any student who is believed to be financially or morally delinquent in any respect.

Applicants for loans are required to offer security other than their own signatures, and no member of the faculty or other person directly connected with the University is accepted as security for any student loan.

Loans bear interest until maturity at 5 per cent, payable semi-annually. The maximum time for which notes may be drawn is two years from the thirtieth day of June next following the student's regular time of graduation. Bank discount is charged for the time until the thirtieth day of June next following the date of the note. Interest at 7 per cent is charged on all notes not paid at maturity.

Applications for loans must be made in writing and addressed to the Chairman of the Loan Fund Committee.

FEES AND EXPENSES

GENERAL FEES

All University fees are payable each semester in advance.

**Colleges of Liberal Arts and Sciences, Commerce and Business Administration,
Engineering, Agriculture and Law, and Library School**

<i>Matriculation Fee.</i> Each student not holding a scholarship, upon satisfying the requirements for admission to the University, pays the matriculation fee of	\$10.00
<i>Incidental Fee.</i> All students, excepting those holding scholarships, pay each semester, an incidental fee of	12.00
<i>Tuition Fee.</i> Students conditioned on entrance requirements, and special students, except special students (in agriculture or household science) holding scholarships, pay each semester, a tuition fee of	7.50
<i>Laboratory Fees.</i> Each student working in laboratories, or in the drafting or engineering classes, is required to pay a fee varying from \$0.50 to \$10.00, to cover materials and apparatus used and breakages or damages. (For a list of Laboratory Fees, see page 112.)	
<i>Deposit for Military Uniform.</i> Male students, citizens of the United States, under 25 years of age, entering the University as freshmen or sophomores, make a deposit to cover the cost of the required military uniform ¹ of	14.20
<i>Listener's Fee.</i> Persons not connected with the University who attend classes as listeners, pay for each course, each semester	7.50
<i>Late Registration Fee.</i> A former student who enters after the Registration Days in either semester must pay a late registration fee of	1.00
<i>Change Fee.</i> For every change of study-list made later than the tenth day of instruction of either semester a fee of \$1.00 is charged, except that the total charge for the rearrangement authorized on any one change-slip shall not exceed \$2.00.	1.00
<i>Special Examination Fee.</i> For any special examination, except examinations for advanced standing taken within sixty days after matriculation, the fee is	5.00
<i>Diploma Fee.</i>	5.00

School of Music

College Courses

Matriculated students, residents of Illinois, pay, each semester, the incidental fee. \$12.00

Non-matriculated students, residents of Illinois, registered for the course in *Public School Methods*, as outlined on page 189, pay, each semester:

- | | |
|----------------------------------|---------|
| (1) The incidental fee | \$12.00 |
| (2) The tuition fee | 7.50 |

¹ Additional equipment costing \$6.75 must be purchased.

All other students (including matriculated students not residents of Illinois and all conditioned and special students), pay, each semester:

If they take music only, special music fees, as follows:

For two lessons a week.....	\$32.50
For one lesson a week.....	19.50
For harmony, counterpoint, fugue, etc.....	9.00

If they take, in addition to music, subjects in other departments:

(1) The incidental fee.....	\$12.00
(2) Unless matriculated, the tuition fee.....	7.50
(3) Special music fees, as follows:	
For two lessons a week.....	\$25.00
For one lesson a week.....	15.00
(4) For harmony, counterpoint, fugue, etc.....	9.00

Preparatory Courses

Students taking music only pay, each semester, special music fees as follows:

For two lessons a week.....	\$19.50
For one lesson a week.....	11.00

Students taking, in addition to music, subjects in other departments pay, each semester:

(1) The incidental fee.....	\$12.00
(2) Unless matriculated, the tuition fee.....	7.50
(3) Special music fees, as follows:	
For two lessons a week.....	\$15.00
For one lesson a week.....	8.50

Additional

Use of a piano for practise one hour a day, each semester.....\$ 3.00

Additional hours at the same rate.

Use of organ for practise one hour a day:

For one semester.....	\$20.00
For one-half semester.....	10.00

Special students, taking music only, may enter classes in physical training

on paying each semester..... 7.50

Diploma fee..... 5.00

College of Medicine

Freshman Year

Matriculation ¹	\$ 10.00
Registration.....	5.00
Laboratory.....	30.00
General Tuition.....	120.00
Total.....	\$165.00

Sophomore Year

Registration.....	\$ 5.00
Laboratory.....	35.00
General Tuition.....	120.00
Total.....	\$160.00

¹Not payable if the student has previously matriculated in any other college of the University of Illinois.

Junior Year

Registration.....	\$ 5.00
Laboratory.....	5.00
General Tuition.....	140.00
Total.....	<u>\$150.00</u>

Senior Year

Registration.....	\$ 5.00
General Tuition.....	155.00
Diploma fee.....	5.00
Total.....	<u>\$165.00</u>

College of Dentistry

Matriculation fee, paid but once, first year ¹	\$ 10.00
Registration fee, each year.....	5.00
Tuition fee, each year (including laboratory and dissection fees).....	150.00
Diploma fee (payable on graduation).....	5.00

School of Pharmacy

Matriculation fee, paid but once, first year ¹	\$ 10.00
Registration fee, each year.....	5.00
Tuition fee, each year.....	90.00
Tuition fee (longer course, 1916-17 only).....	125.00
Laboratory fee (longer course, 1916-17 only).....	15.00
Laboratory deposit, each year.....	10.00
Diploma fee (payable on graduation).....	5.00

LABORATORY FEES (FOR MATERIALS) 1916-17

(The fees given below are in each case for one semester only; where a course runs through both semesters, the fee is to be paid each semester.)

An. Husb. 30.....	\$ 1.00	Botany 22b (per hr.).....	\$.50
Arch. 13.....	1.00	Botany 23.....	1.00
Arch. 14.....	1.00	Botany 25a.....	1.00
Arch. 15.....	1.00	Botany 25b.....	1.00
Arch. 16.....	1.00	Botany 27a.....	2.00
Bacteriol. 5.....	7.50	Botany 27b.....	1.50
Bacteriol. 5a.....	7.50	Botany 28 (per hr.).....	.50
Bacteriol. 6.....	4.00	Botany 101.....	3.00
Bacteriol. 8.....	6.00	Botany 102.....	3.00
Bacteriol. 19.....	7.50	Botany 104.....	3.00
Bacteriol. 26.....	7.50	Botany 106.....	6.00
Bacteriol. 103.....	3.00	Ceramics 1.....	2.00
Bacteriol. 105.....	3.00	Ceramics 5.....	5.00
Botany 1.....	2.00	Ceramics 6.....	5.00
Botany 2a.....	1.50	Ceramics 11.....	5.00
Botany 2b.....	1.00	Ceramics 12.....	2.00
Botany 3a.....	3.00	Ceramics 13.....	4.00
Botany 3b.....	2.00	Ceramics 14.....	4.00
Botany 4.....	1.00	Ceramics 15.....	4.00
Botany 4a.....	1.00	Ceramics 16.....	4.00
Botany 4b.....	1.00	Chemistry 1.....	8.00
Botany 7a.....	5.00	Chemistry 1a.....	6.00
Botany 7b.....	5.00	Chemistry 1b.....	6.00
Botany 9a (per hr.).....	.50	Chemistry 2a.....	8.00
Botany 9b (per hr.).....	.50	Chemistry 2a (½ sem.).....	5.00
Botany 16a.....	1.00	Chemistry 3a.....	8.00
Botany 16b.....	1.00	Chemistry 4.....	8.00
Botany 17a.....	1.00	Chemistry 5a.....	10.00
Botany 17b.....	1.00	Chemistry 5b.....	10.00
Botany 20.....	1.00	Chemistry 5d.....	10.00
Botany 21.....	1.00	Chemistry 8.....	8.00
Botany 22a (per hr.).....	.50	Chemistry 9a.....	10.00

¹Not payable if the student has previously matriculated in any other college of the University of Illinois.

Chemistry 9b.....	\$10.00	Entom. 13.....	\$ 1.50
Chemistry 9c.....	10.00	Entom. 14.....	1.50
Chemistry 10a.....	5.00	Entom. 102.....	1.50
Chemistry 10b ($\frac{1}{2}$ sem.).....	5.00	Entom. 103.....	1.50
Chemistry 11a (per hr.).....	2.00	Entom. 108.....	1.50
Chemistry 11b (per hr.).....	2.00	Entom. 109.....	1.50
Chemistry 13a.....	10.00	G. E. D. 2.....	1.00
Chemistry 13b.....	10.00	Geology 1.....	2.25
Chemistry 15.....	8.00	Geology 2.....	1.00
Chemistry 16.....	5.00	Geology 3.....	2.00
Chemistry 21.....	8.00	Geology 5.....	2.70
Chemistry 22.....	10.00	Geology 6.....	1.05
Chemistry 25.....	10.00	Geology 7.....	2.00
Chemistry 27.....	8.00	Geology 8.....	1.00
Chemistry 33.....	8.00	Geology 9.....	1.00
Chemistry 35.....	8.00	Geology 10.....	1.00
Chemistry 61.....	5.00	Geology 11.....	1.00
Chemistry 65.....	5.00	Geology 12.....	2.00
Chemistry 66.....	3.00	Geology 13a.....	2.25
Chemistry 69.....	5.00	Geology 13b.....	1.00
Chemistry 70.....	5.00	Geology 14.....	1.00
Chemistry 71.....	3.00	Geology 16.....	1.00
Chemistry 72.....	3.00	Geology 17.....	1.00
Chemistry 73.....	3.00	Geology 18.....	1.00
Chemistry 78.....	5.00	Geology 22.....	1.00
Chemistry 80.....	3.00	Geology 35.....	1.00
Chemistry 102c.....	5.00	Geology 36.....	1.00
Chemistry 103.....	10.00	Geology 40.....	1.00
Chemistry 103a.....	10.00	Household Science 1.....	3.00
Chemistry 104.....	5.00	Household Science 4.....	5.00
Chemistry 104a.....	5.00	Household Science 5a.....	3.00
Chemistry 105a (per hr.).....	2.00	Household Science 5b.....	3.00
Chemistry 106.....	10.00	Household Science 6.....	3.00
Chemistry 108.....	5.00	Household Science 10.....	1.00
Chemistry 110.....	10.00	Household Science 14a.....	5.00
Chemistry 111 (per hr.).....	2.00	Household Science 14b.....	5.00
Civil Eng. 13a.....	.50	Household Science 17.....	2.00
Civil Eng. 13b.....	.50	Household Science 18a.....	5.00
Civil Eng. 27.....	.75	Household Science 18b.....	5.00
Civil Eng. 28.....	.75	Human Anat. 1.....	5.00
Civil Eng. 31.....	.75	Human Anat. 2.....	5.00
Civil Eng. 32.....	.75	Mech. Eng. 23.....	1.00
Civil Eng. 33.....	.75	Mech. Eng. 61.....	2.00
Civil Eng. 34.....	.75	Mech. Eng. 62.....	3.00
Civil Eng. 51.....	1.00	Mech. Eng. 64.....	3.00
Civil Eng. 53.....	.75	Mech. Eng. 65.....	3.00
Civil Eng. 58.....	.50	Mech. Eng. 66.....	3.00
Civil Eng. 60.....	.50	Mining 9.....	2.00
Civil Eng. 62.....	.75	Mining 19.....	2.00
Civil Eng. 76.....	.50	Mining 62.....	1.00
Civil Eng. 79.....	1.00	Mining 64.....	3.00
Civil Eng. 82.....	.75	Mining 66.....	3.00
Civil Eng. 83.....	.75	M. and S. E. 2.....	1.00
Civil Eng. 85.....	1.00	M. and S. E. 3.....	1.00
Civil Eng. 88.....	.75	M. and S. E. 6a.....	1.00
Civil Eng. 91.....	.75	Photography 1.....	4.00
Civil Eng. 92.....	.75	Photography 2.....	4.00
Civil Eng. 93.....	.50	Physics 3a.....	2.00
Civil Eng. 96.....	1.00	Physics 3b.....	2.00
Elect. Eng. 16.....	3.00	Physics 4a.....	2.00
Elect. Eng. 24.....	4.00	Physics 4b.....	2.00
Elect. Eng. 27.....	4.00	Physics 8a.....	2.00
Elect. Eng. 61.....	3.00	Physics 8b.....	2.00
Elect. Eng. 62.....	3.00	Physics 10a.....	2.00
Elect. Eng. 64.....	3.00	Physics 10b.....	2.00
Elect. Eng. 68.....	3.00	Physics 15.....	2.00
Elect. Eng. 75.....	4.00	Physics 16.....	2.00
Elect. Eng. 76.....	4.00	Physics 17.....	2.00
Entom. 1a.....	1.00	Physics 18.....	2.00
Entom. 1b.....	1.00	Physics 22.....	2.00
Entom. 2.....	1.50	Physics 23.....	2.00
Entom. 3.....	1.50	Physics 24.....	2.00
Entom. 4a.....	1.50	Physics 25.....	2.00
Entom. 4b.....	1.50	Physics 31a.....	2.00
Entom. 5.....	1.50	Physics 31b.....	2.00
Entom. 6a.....	2.00	Physics 32.....	2.00
Entom. 6b.....	2.00	Physiol. 1.....	3.50
Entom. 7.....	1.50	Physiol. 2.....	3.50
Entom. 8a.....	1.50	Physiol. 3.....	3.50
Entom. 8b.....	1.50	Physiol. 4a.....	3.50
Entom. 9.....	1.50	Physiol. 4b.....	3.50
Entom. 10.....	1.00	Physiol. 5a.....	3.50
Entom. 11.....	1.50	Physiol. 5b.....	3.50

¹Maximum \$10.00.

Physiol. 103.....	\$ 3.50	Zoology 3.....	\$ 3.00
Psychol. 3.....	2.00	Zoology 4.....	2.50
Psychol. 4.....	2.00	Zoology 6.....	3.00
Railway Eng. 63.....	3.00	Zoology 9.....	2.00
T. and A. M. 10.....	1.00	Zoology 11.....	3.00
T. and A. M. 15.....	1.00	Zoology 17.....	1.00
T. and A. M. 16.....	1.00	Zoology 18.....	1.00
T. and A. M. 25.....	2.00	Zoology 22.....	2.00
T. and A. M. 26.....	1.00	Zoology 23.....	2.00
T. and A. M. 29.....	2.00	Zoology 25.....	3.00
Zoology 1.....	2.50	Zoology 26.....	3.00
Zoology 2.....	3.50		

AVERAGE ANNUAL EXPENSES

The following are estimated average annual expenses for undergraduate students attending at Urbana, *exclusive* of books, clothing, railroad fare, laboratory fees, if any, and small miscellaneous needs:

Semester fees ¹	\$ 24.00 to \$ 24.00
Room rent for each student (two in room).....	72.00 to 80.00
Table board in boarding houses and clubs.....	162.00 to 200.00
Washing.....	20.00 to 30.00

Total.....	\$272.00 to \$334.00
Board and room in private house, a week.....	\$ 5.50 to \$ 6.50

In addition to the foregoing, freshmen pay a matriculation fee of \$10.00, and the men are required to buy a cadet uniform and equipment, which costs \$20.95. Freshmen engineering students will need to buy a set of drawing instruments at a cost of about \$18.00.

Other necessary expenses will need to be taken into consideration. For all the necessary expenses of the year the average student is likely to need not less than \$375.00 to \$500.00. Most students spend more than this amount.

For information in regard to scholarships which cover the matriculation and incidental fee, see page 104.

Board and Rooms

The University does not provide dormitories nor furnish board, but the numerous rooming and boarding houses near the campus are to a certain extent under the supervision of the University. The Young Men's and Young Women's Christian Associations of the University will aid new students in securing rooms and board.

Prospective women students and their parents are invited to correspond with the Dean of Women in regard to suitable places.

¹Students of music, special students, and conditioned students must make needed changes in the amount given for "semester fees."

PART II
THE COLLEGES AND SCHOOLS



THE COLLEGE OF LIBERAL ARTS AND SCIENCES

For a description of the *buildings* used by this College, see page 51; for *museums and collections* belonging to it (classical art and archeology, education, European culture, botany, entomology, geology, and zoology), see pages 60-62; for a summary of its *courses*, see page 63; for *clubs and societies* auxiliary to its curriculums see page 102; for *fees*, see page 110.

ORGANIZATION

The organization of the College of Liberal Arts and Sciences, in which are merged the former College of Literature and Arts and College of Science, became fully effective on July 1, 1913, following an action of the Board of Trustees taken on July 5, 1912. In September, 1916, a new schedule of requirements for admission to the College of Liberal Arts and Sciences went into full operation. Changes in the requirements for graduation with the degree of Bachelor of Arts have been worked out by the Faculty and approved by the Board of Trustees. These are described on pages 118-120.

PURPOSE

The purpose of the College of Liberal Arts and Sciences is, first, to secure to its students a liberal education including both the humanities and the sciences; second, to furnish especially arranged curriculums preparatory to later professional and technical studies by which good students may ordinarily obtain in six years both the degree in arts and a professional degree in law or medicine, or a technical degree in engineering; and, third, to provide certain highly specialized curriculums in applied science (particularly chemistry), journalism, and household science. The degree of Bachelor of Arts is conferred upon the completion of all these curriculums, except those in applied science, for which the degree of Bachelor of Science is given.

Under the modified elective system a student who desires to prepare for teaching may specialize to a considerable extent in the subject which he wishes to teach and may also find time for courses in education and related subjects of interest to teachers. Such students should, as a rule, continue their preparation in the Graduate School.

Students who desire to devote a considerable part of their undergraduate study to specific preparation for some calling other than teaching may select courses in law, medicine, dentistry, journalism, or applied chemistry, or household administration, in accordance with curricula given in detail in the following pages.

ADMISSION

See the statement of the entrance requirements of the University, pages 66-84.

SPECIAL STUDENTS

For a statement of the regulations of the University in regard to special students, see page 72.

It is the policy of this College to admit as special students only a select group of mature and serious persons who, tho unable to meet the formal requirements

for entrance, are substantially prepared for work of college grade, and have a specific and clearly defined purpose in their study.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

A. *University Requirements*.—Each candidate must meet the general university requirements with respect to registration and residence, and must also secure credit in approved courses amounting to one hundred thirty hours, an hour being one class period a week for one semester. Each class period presupposes two hours preparation by the student, or the equivalent in the laboratory or drawing room.

B. *Prescribed Subjects*.—Rhetoric 1-2; Physical Training 1-2 and 1a for men; Physical Training 7a-7b and 9 for women; Military Science 1 and 2 for men.

C. *Group Requirements*.—Every candidate must offer the minimum of work specified in each of the following groups:

I. *English*.—The offering in this group must include at least a one-semester course in literature.

II. *Foreign Languages and Literatures* (exclusive of courses in translation).

If a student has offered but two units of a foreign language for entrance to the University, he must pursue the study of foreign language through two year-courses or the equivalent. If he has offered for entrance three or more units of foreign language, he must continue the study of foreign language through one year of his college course.

Note: Candidates for the degree who have not offered Greek or Latin or French or German for entrance must offer one of these languages for graduation.

III. *History, Political and Social Science*.—History, economics, political science, sociology: 8 hours.

IV. *Mathematics and Physical Science*.—Mathematics, astronomy (courses with college mathematics as prerequisites), physics, chemistry: 8 hours.

V. Botany, including bacteriology, entomology, geology, physiology, zoology: 8 hours.

VI. Education, philosophy, psychology: 6 hours, of which 3 shall be in philosophy or psychology.

D. *Major Subjects*.—Each candidate must select some subject as his major. A major consists of courses amounting to 20 hours chosen from among those designated by a department and approved by the faculty of the college. Such courses are to be exclusive of those elementary or beginning courses which are open to freshmen, and inclusive of some distinctly advanced work. At least five hours of the work accepted for a major must have been done in residence at this University and included within the maximum credits allowed in any one division. See the statements regarding majors under departmental announcements in Part III.

The subjects at present recognized as majors in this college are: Astronomy, bacteriology, botany, chemistry, classics, education, economics, English, entomology, French, geology, German, Germanic languages, Greek, history, household science, Latin, mathematics, philosophy, physiology, physics, political science, psychology, Romance languages, sociology, zoology.

E. *Minor Subjects*.—Each candidate must offer, in addition to his major, a minor of 20 hours in one or more allied subjects designated by the major department and approved by the faculty of the college. *At least 8 hours must be offered in one subject.* See the statements regarding minors under departmental announcements in Part III.

F. *Elective Subjects*.—

1. Not more than 40 hours in any one subject may be counted for graduation, except: (a) in special curriculums approved by the faculty of the

college; (b) when a student is writing a thesis, he may count, in addition to the 40 hours, the hours of the course in which he does his thesis work; (c) in the department of English a student may take 40 hours in addition to Rhetoric 1-2.

Note: The total credit in art and design is limited to 20 hours.

2. No credit is granted in any subject unless the student pursues it for the full time required in the shortest course offered in that subject. For example, if the student elects a course which yields two hours for one semester, he must stay in the class during one semester in order to get any credit at all. In order to secure any credit in a beginning course in a foreign language, a full year's work must be completed.

3. A limited amount of credit toward the degree of Bachelor of Arts is ordinarily given for courses offered in other colleges and schools of this University, as follows:

Electives in other Colleges and Schools

College of Agriculture:

Agricultural Extension 1 (High School Agriculture).

Agronomy 9 (Soil Physics), 11 (Soil Biology), 12 (Soil Fertility), 22 (Plant Breeding).

Animal Husbandry 7 and 31 (Animal Nutrition), 30 (Genetics).

Dairy Husbandry 11, 12a-12b (Dairy Bacteriology).

Horticulture 9 (Forestry), 12 (Horticultural Evolution), 36 (History of Landscape Gardening), 37a (Civic Design), 42 (Landscape Design).

The total credit allowed in agricultural courses may not exceed 14 hours except to students who do major work in entomology, who may be allowed 20 hours to be chosen from the above courses with the addition of Agronomy 7 and 25, and Horticulture 1a, 1b, 2, 3, 6 and 7.

College of Commerce and Business Administration:

Accountancy 1a-1b (Principles of Accounting), 13 (Municipal Accounting)

Business Organization 1 (Business Organization), 9 (Commercial and Civic Organizations).

Business Law 1a-1b (Commercial Law,—no credit given to students in the combined arts-law curriculum).

Economics, all courses except 9, 14, 15, 32, 34.

Transportation 1 (U. S. Transportation System), 2 (Transportation Policy).

The total credit allowed for courses in Commerce may not exceed 40 hours.

College of Engineering:

Architecture 13, 14, 15, 16 (History of Architecture), 31, 32 (Architectural Drawing); Civil Engineering 27 and 28 or 33 and 34 (Surveying), 94 (Highway Administration); Drawing, General Engineering 1 (Elements of Drafting); 2 (Descriptive Geometry); Electrical Engineering 4 and 64 or 8 and 68; Mechanical Engineering 11, 12 (Thermodynamics), 30 (Mechanics of Machinery); Mechanics, Theoretical and Applied, all courses. The total credit allowed in engineering courses may not exceed 24 hours.

College of Law:

A student who has Senior standing in the College of Liberal Arts and Sciences may take and count the first full year of law work for thirty hours of credit toward the degree of Bachelor of Arts, or, if he takes and successfully carries less than the full amount, it shall be counted one hour for hour toward the degree of Bachelor of Arts.

Law 14 (Carriers), 24 (Municipal Corporations), 28 (Insurance), and 34 (Public Utilities), are open to students majoring in political science or economics who have had a previous course in law or political science involving the study of cases.

Courses in law may not be taken before the senior year by students enrolled in this College, and in no case may the total credit for law courses exceed 30 hours.

Library School:

Library Science 2a-2b or 12 (Reference), 7 (History of Libraries), 9 (Bookmaking) 13a-13b (Public Documents).

School of Music:

The total credit allowed for courses in music may not exceed 16 hours. At least one-half the credit must be taken in courses in the history and theory of music (1-14 inclusive). Credit may be allowed in practical music for courses preceded by Music 3 and 4 and exclusive of courses open to freshmen to an amount not to exceed one-half of the total allowed any student. No credit will be allowed for courses in public school music.

Physical Training:

Not to exceed 5 semester hours for men and 7 semester hours for women.

Military Science and Tactics: Military Science 1 and 2.

G. *Bachelor's Thesis:* A bachelor's thesis is not generally required in this College. Students of high standing are, however, encouraged to write theses in connection with their major studies. Credit toward the degree is given for thesis work only as part of the work in some course for which the student is registered. The presentation of a thesis is specifically required of all candidates for the honor degree.

H. *Optional Degree of Bachelor of Science:* Students who do major work in one of the subjects in Groups IV or V, or in Household Science, on petition to and recommendation of the faculty may be graduated with the degree of Bachelor of Science instead of Bachelor of Arts.

ARRANGEMENT OF COURSES

First Year

Subjects Prescribed for Freshmen

The following subjects must be taken during the freshman year: *Rhetoric* 1-2,¹ three hours each semester; *Military* 2, one hour each semester, and *Military* 1, one hour second semester (for men); *Physical Training* (Physical Training 1-2 and 1a for men; 7a-7b and 9 for women). Students who enter for the General Science Curriculum should take *Chemistry* 1, unless chemistry has been accepted for admission.

Freshman Electives

The following subjects are open to freshmen. The total amount including military and physical training taken in any semester is limited to eighteen hours and should not be less than fifteen.

FIRST SEMESTER

I. English 10² (3);³ Rhetoric 1 (3).

II. French 1a (4) or 1b (4) or 2a (4); German 1 (4) or 2 (4) or 4 (4) or 5 (4);

¹See special examination in Rhetoric 1, page 72.

²English 10-11 is open only to freshmen who have presented the minimum amount of English required for admission. See the description of this course, page 310.

³The figure immediately following the subject is the number of the course (see page 247), the figure in parenthesis indicates the number of credit hours to be secured in the course each semester.

Greek 1a (4) or 7 (3); Latin 6 (4), 1a (4) or 2a (4); Spanish 1a (4) or 2a (3) or 3a (2); Italian 1a (3).

III. Mathematics 2 (3) and 4 (2).

IV. Economics 7 (3) and 26 (3); History 1a (4) or 2a (3).

V. Botany 1¹ (5), 4d (3); Chemistry 1² (5) or 1a² (3); Entomology 1a (2); 4 (3), 15 (3); Geology 1² (5), 3 (5), 14 (3), 35² (5); Physics 7a³ and 8a³ (5); Zoology 1² (5).

Household Science 2 (2) or 7a (2).

Library Science 12 (2).

Art and Design 1 (3).

SECOND SEMESTER

I. English 11⁴ (3)⁵; Rhetoric 1 (3) or 2 (3).

II. French 1a (4) or 1b (4) or 2b (4); German 1 (4) or 3 (4) or 4 (4) or 5 (4) or 6 (4) or 7 (4); Greek 1b (4), 4 (4), or 6 (3); Latin 1b (4), or 2b (4); Spanish 1a (4) or 1b (4) or 2b (3) or 3b (2); Italian 1b (3).

III. Mathematics 2 (3), 4 (2) 6 (5).

IV. Economics 22 (3) and 27 (3); History 1b (4) or 2b (3).

V. Astronomy 4 (5); Botany 1¹ (5), 2b (5), 3b (5), 4 (3), 4a (5), 4b (5), 4c (5); Chemistry 1² (5) or 1a² (3) or 2a (5); Entomology 1b (2), 4 (3), 16 (2) Geology 3² (5), 12 (5), 23 (5), 35² (5); Physics 7b³ and 8b³ (5); Physiology 4 (5); Zoology 2 (5), 1² (5), or 16 (2).

Household Science 1 (3).⁶

Art and Design 1 (3), 2 (2).

Second Year

Male students must continue Military 2 throughout the year. Students who have failed to secure credit for any of the prescribed subjects of the freshman year must make up such deficiencies at this time.

Election

Aside from the subjects prescribed for the first two years, each student selects with the advice of the Dean or other college advisers, such courses as will enable him to meet the requirements for graduation as stated above.

CURRICULUM IN JOURNALISM

Students who are preparing for reportorial, literary, or editorial work in journalism should take their major work in English, and make up their study schedules from the following suggested curriculum. With the consent of the adviser, other studies may, for purposes of specialization, be substituted for those suggested. A program which satisfies the group and major requirements may, for instance, be so modified in the third and fourth years as to lay emphasis on any one of the social sciences.

Students in journalism with major in English are subject to the requirements of the General Curriculum in Liberal Arts and Sciences.

¹Either semester.

²May be taken either semester, but not in both.

³Prerequisite: Mathematics 4 (Trigonometry) which may be taken at the same time.

⁴English 10-11 is open to freshmen who have presented the minimum amount of English required for admission. See the description of this course, page 310.

⁵The figure immediately following the subject is the number of the course (see page 247), the figure in parenthesis indicates the number of credit hours to be secured in the course each semester.

⁶Prerequisite: Entrance credit in Physics, and Chemistry 1 or 1a.

Curriculum in Journalism¹

(Major in English)

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
<i>Prescribed Subjects</i>	Hours ²	<i>Prescribed Subjects</i>	Hours ²	<i>Prescribed Subjects</i>	Hours ²
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3	Phys Tr. 2—Gymnasium.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.....	1	Mil. 1—Drill Regulations.....	1	Mil. 2b—Military Drill.....	1
Military 2a—Military Drill.....	1				
Total.....	5	Total.....	6		
<i>Suggested Electives</i>		<i>Suggested Electives</i>		<i>Suggested Electives</i>	
Eng. 10—Introduction to Literature—science.....	3 or 5	Eng. 11—Introduction to Literature—science.....	3	Foreign language.....	4
Foreign language.....	4	Hist. 1a—Continental European History.....	4	Hist. 1b—Continental European History.....	4
Hist. 1a—Continental European History.....	4	Lib. 12—General Reference.....	2		
Lib. 12—General Reference.....	2				
SECOND YEAR					
<i>Prescribed Subjects</i>		<i>Prescribed Subjects</i>		<i>Prescribed Subjects</i>	
Mil. 2c—Military Drill.....	1	Mil. 2d—Military Drill.....	1		
<i>Suggested Electives</i>		<i>Suggested Electives</i>		<i>Suggested Electives</i>	
Eng. 1—Survey of English Literature—science.....	3 or 4 or 5	Eng. 1—Survey of English Literature—science.....	3	Pol. Sc. 3—State and Local Government or Econ. 3—Money and Banking.....	3
Eng. 12—American Literature.....	2	Eng. 23—Shakespeare, or English 13, American Literature.....	3 or 2	Foreign language continued.....	4
Foreign language continued.....	4	Hist. 3b—History of United States.....	3	Rhet. 13—The Newspaper.....	3
Hist. 3a—History of United States.....	3				
Pol. Sc. 1—American National Government or Econ. 1—Principles of Economics.....	5				
Rhet. 12—News Writing.....	3				
THIRD AND FOURTH YEARS					
Study lists for these years should be selected from the following list with regard to proper sequence.					
Econ. 5, or 10, or 12a—Public Finance, or Corporation Management, or Labor Problems.....	3	Bus. Org. and Op. 10—Organization and Operation of Newspaper Publishing.....	2	Econ. 11, or 13, or 21—Industrial Consolidation, or Econ. Hist. of Europe, or Socialism and Social Reform.....	3 or 2
English 27 and 21, or 33 or 45—History of Journalism; The Bible; or Literature from 1789 to 1837; or Modern Drama.....	2 or 3	English, 28 and 24 or 3 or 5—Hist. of Journalism, Victorian Period, Milton, Shakespeare.....	2 or 3	History 17, 27, 29—Hist. of Illinois, Latin America, The Far East.....	3 or 2
History 21—U. S. since 1877, or 26—The Latin American Colonies.....	3	Language.....	4	Philosophy 2—Introd. to Phil.....	3
Language.....	4	Pol. Sci. 18, or 28—Contemporary Politics.....	3 or 2	Psychology 1—Introd. to Psychology.....	3
Philosophy 1—Logic, and Phil. 9—Political Ethics, or Pol. Sci. 5—Const. Law.....	3 or 2 or 4	Rhet. 16, 17, 27, 29—Editorials and Special Articles, Advanced Composition, Editorial Practise, Making a Country Newspaper.....	2 or 3	Sociology 9—Criminology.....	3
Pol. Sci. 14—Political Parties, or Pol. Sci. 4—Municipal Gov't.....	3				
Psychology 1—Introd. to Psychology.....	3				
Rhet. 6, 15, 26, 28—Short Story, Editorials and Special Articles, Editorial Practise, Newspaper Problems.....	3				
Sociology 1—Principles of Sociology.....	3				

CURRICULUM PRELIMINARY TO LAW

It is recognized by the best authorities on legal education that professional studies in law should be preceded by a thoro course in the humanities and the sciences. As a foundation for the study and practise of law, the following subjects offered by this College are of special importance: English, with special reference to composition and public speaking; Latin and French; logic; constitutional and political history; political science; economics; sociology.

¹For new additional courses in journalism see the description of courses beginning on page 247 under English (Rhetoric).

²Semester hours. For definition, see page 247.

Suggested two years Curriculum Preparatory to Law

FIRST YEAR

FIRST SEMESTER

Hours¹

Foreign language.....	4
Hist. 2a—English History.....	3
Mathematics or science.....	5
Rhet. 1—Rhetoric and Themes.....	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.....	1
Mil. 2a—Military Drill.....	1
Total.....	17

SECOND SEMESTER

Hours¹

Foreign language.....	4
Hist. 2b—English History.....	3
Math. 2—Trigonometry.....	3
Rhet. 1—Rhetoric and Themes.....	3
Phys. Tr. 2—Gymnasium.....	1
Mil. 1—Drill Regulations.....	1
Mil. 2b—Military Drill.....	1
Total.....	16

SECOND YEAR

Econ. 1—Principles of Economics.....	5
Hist. 3a—History of the U. S.....	3
Mathematics or science or foreign languages.....	5 or 4
Pol. Sci. 1—American Government.....	3
Mil. 2c—Military Drill.....	1
Total.....	17 or 16

Econ. 3—Money and Banking.....	3
Eng. 20—Chief English Writers.....	4
Hist. 3b—History of the U. S.....	3
Philos. 1—Logic.....	3
Pol. Sci. 3—State and Local Government.....	3
Mil. 2d—Military Drill.....	1
Total.....	17

The courses in military and physical training, Rhetoric 1-2, and eight hours in foreign language are required of freshmen in the College of Liberal Arts and Sciences. Latin is strongly urged for all students intending to study law; but those who have not had the necessary preparation for college courses in Latin should substitute a modern language, preferably French or German.

By the proper selection of his studies it is possible for a prospective law student to take both the degree in arts and the degree in law in six years. A student who has senior standing in the College of Liberal Arts and Sciences and who has earned at least 30 hours in this college may take and count the first full year of law work for thirty hours of credit toward the degree of Bachelor of Arts, or, if he takes and successfully carries less than the full amount it shall be counted only hour for hour toward the degree of Bachelor of Arts. *Students are not permitted to take this work in law until their senior year.* If the student is also a candidate for the degree of LL.B., or J.D., he should in his fourth year register in the College of Law, pay the usual fee of that College, and file a copy of his study-list with the adviser for seniors in this College.

The degree of Bachelor of Arts is conferred at the close of the fourth year of the combined course provided that all the requirements for the degree are met at that time.

Students admitted to this University from other institutions may count the above courses in law for the degree of Bachelor of Arts only on condition of completing at least 30 hours' work in residence in subjects offered by the College of Liberal Arts and Sciences.

HOUSEHOLD SCIENCE

The courses of instruction given in this department are planned to meet the needs of four classes of students: (a) those students who desire a knowledge of the general principles and facts of household science; (b) those students who wish to make a speciality of household science for the purpose of teaching the subject in secondary schools and colleges; (c) those students who wish some knowledge of the principles underlying household administration and institutional management; (d) those students who are interested in the work of dietitians.

The suggested curriculums for teachers and for institutional workers are outlined below. The first three years of the curriculum as outlined for teachers give a scientific basis for the work of the dietitian.

¹Semester hours. For definition, see page 247.

Students who major in household science in the College of Liberal Arts and Sciences must also satisfy the other requirements for the degree of Bachelor of Arts in so far as these are not covered in the curriculums given below.

* Attention is called to the fact that high school physics is a prerequisite for Household Science 1.

Suggested Curriculum in Household Administration

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Chem. 1—Inorganic Chemistry or	5	Chem. 2a—Inorg. Chem. and Qual. Anal.	5
Chem. 1a ² —Inorganic Chemistry	3	Foreign language	4
Foreign Language	4	H. Sci. 1 ³ —Principles of the Selection and	
H. Sci. 2—Home Arch. and Sanitation	2	Preparation of Food	3
Rhet. 1—Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 7—Physical Training	1	Phys. Tr. 7—Physical Training	1
Phys. Tr. 9—Hygiene	1		
Total	19	Total	16

SECOND YEAR

A. & D. 1—Free Hand Drawing	3	A. & D. 12—Applied Design	2
Foreign language or English 1	4	Bot. 1—General Botany or	
H. Sci. 6—Economic Uses of Food	3	Zool. 1—General Zoology	5
H. Sci. 7—Textiles	2	Foreign language or English 2	4
Total	12	Total	11

Electives

A. & D. 19—History of the Fine Arts	2
Chem. 13a ⁴ —Agricultural Analysis or	
Econ. 26 ⁴ —Economic Resources	5 or 3
Hist. 1a—Continental European Hist. or Hist.	
3a—History of the U. S.	4 or 3
Lib. Sci. 12—General Reference	2

Electives

A. & D. 20—History of the Fine Arts	2
Chem. 9 ⁴ —Organic Chemistry and	3
Chem. 9c—Organic Synthesis or	
Econ. 22 ⁴ —Econ. Hist. of U. S.	2 or 3
Hist. 1b—Continental European Hist. or	
Hist. 3b—History of the U. S.	4 or 3

THIRD YEAR

Econ. 1—Principles of Economics	5	H. Sci. 3—Home Decoration	2
H. Sci. 19—Dress Design	3	H. Sci. 5—Dietetics	3
Physiol. 4—General Physiology	5	H. Sci. 12—Clothing	3
Total	13	Total	8

Electives

English	
H. Sci. 14—Problems in the Preparation and	
Service of Food	3
Psychol. 1—Introduction to Psychology	3
Sociol. 1—Principles of Sociology	3

Electives

Bact. 5—Introduction to Bacteriology	5
H. Sci. 10—Home Management	2
Philos. 2—Introduction to Philosophy	3
Pol. Sci. 3—State and Local Government	3
Pol. Sci. 16—Government of Illinois	2
Psychol. 2—General Psychology or	
Educ. 1—Intro. to Education	3 or 4

FOURTH YEAR

Educ. 1—Introduction to Education	4	Educ. 10—Observation and Technic	3
English, advanced		English, advanced	
H. Sci. 4—Food and Nutrition	5	H. Sci. 9—Seminar	3
H. Sci. 13—History of Home Economics	2	H. Sci. 11—Teachers' Course	3
H. Sci. 15—Economics of the Family Group	3	H. Sci. 17—Problems in the Study of textiles	3
H. Sci. 18—Lunch Room Management	5		

Electives

SIX-YEAR AND SEVEN-YEAR MEDICAL CURRICULUMS

The requirement for admission to the four-year medical curriculum (whether the first year of the curriculum is taken at Urbana or in the College of Medicine in Chicago) is as follows: 60 semester hours of college work, including 8 in chemistry, 8 in physics, 8 in biology, 6 in French or German, and 30 elective.

The University offers a six-year and a seven-year combined arts-medicine curriculum. The six-year curriculum includes three years given at Urbana and three years in the College of Medicine in Chicago. The third of the three years given at Urbana is technically described as a one-year medical college curriculum. The seven-year curriculum includes four years of collegiate work at Urbana and three years in the College of Medicine in Chicago. One of the four years at Urbana is devoted to the work of the one-year medical college curriculum. The work given

¹Semester hours. For definition see page 247.

²If Chemistry 1a is taken, a 2-hour elective must be added, with the approval of the adviser.

³Attention is called to the fact that high school physics is a prerequisite for Household Science 1.

⁴Choice depends on whether the student wishes to emphasize the sciences or economics as a minor.

at Urbana includes substantially in both curriculums the work of the first year or a standard curriculum in medicine, together with two years or three years in liberal arts and sciences. Students who have completed the work of the first two years and are taking the work of the third year are registered in both the one-year medical college curriculum and the College of Liberal Arts and Sciences.

A student who has completed the curriculum outlined below, covering two years of premedical work and the one-year medical college curriculum at Urbana, may receive credit by transfer for one year of work in the College of Medicine of the University of Illinois or other standard colleges of medicine, and upon the completion of the second year's work in such college of medicine may receive the degree of Bachelor of Science on the recommendation of the faculty of the College of Liberal Arts and Sciences in the University of Illinois. Under this plan the student may receive the degrees of Bachelor of Science and Doctor of Medicine with six years of work.

Students who wish to take the fourth year in the College of Liberal Arts and Sciences, including the one-year medical college curriculum, are not held to the group requirements prescribed for students taking the regular degree of Bachelor of Arts. The curriculum must be made up with the approval of the adviser for seniors and the Dean of the College. It is recommended that selection be made from the following courses: Bacteriology; Chemistry 5b, 5c, 9a, 9b, 14a-14b, 21, 22, 31, 105 and 106; Entomology 2, 3; Physiology 5; Zoology 4, 5, 8a-8b, 21a-21b, 22, 23, 25-26; modern languages; and studies included in Groups IV and V of the general curriculum, page 118. On the completion of this fourth year, the student takes the degree of Bachelor of Arts before going to the College of Medicine.

FIRST YEAR

FIRST SEMESTER	Hours ¹	SECOND SEMESTER	Hours ¹
Chem. 1—General Chemistry.....	5	Chem. 2a—Inorganic Chemistry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Zool. 2—Vertebrate Zoology.....	5
Zool. 1—General Zoology.....	5	Phys. Tr. 2—Gymnasium.....	1
Mil. 2a—Military.....	1	Mil. 1—Drill Regulations.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2b—Military Drill.....	1
Total.....	17	Total.....	16

SECOND YEAR

Chem. 5a—Quantitative Analysis.....	5	Chem. 9, 9c—Organic Chemistry.....	5
Ger. 1 or 4, or Latin.....	4	Ger. 3 or 5 or 6, or Latin.....	4
Phys. 7a—General Physics.....	2½	Phys. 7b—General Physics.....	2½
Phys. 8a—Laboratory.....	2½	Phys. 8b—Laboratory.....	2½
Zool. 3—Microscopical Technics.....	3	Zool. 6—Vertebrate Organogeny.....	3
Mil. 2c—Military Drill.....	1	Mil. 2d—Military Drill.....	1
Total.....	18	Total.....	18

THIRD YEAR

(One-Year Medical College Curriculum)

FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
Bact. 1—Introduction.....	3	Bact. 26—Pathological Bacteriology.....	3
Chem. 15—Physiological Chemistry.....	5	Chem. 15a—Metabolism.....	2
Human Anat. 1—Introduction.....	3	Human Anat. 2—Introduction.....	3
Physiol. 1—Histology.....	3	Physiol. 2—Experimental Physiology.....	5
Physiol. 4—General Physiology.....	5	Physiol. 8—Histology.....	5
Total.....	19	Total.....	18

CURRICULUM IN CHEMISTRY

Students who follow the General Curriculum in the College of Liberal Arts and Sciences with chemistry as a major subject are eligible for the degree of Bachelor of Arts.

¹Semester hours. For definition see page 247.

For the more specialized training of the chemist the following curriculum, largely prescribed, has been arranged. It requires a maximum total of 136 hours, and leads to the degree of Bachelor of Science in chemistry.

Preliminary preparation in German or French equivalent to two years of high school work or one year of university work is prescribed. The total language requirement for graduation in the curriculum in chemistry, including courses offered for entrance, must be equivalent to two years of university German and one year of university French.

In the following schedule of courses, after the second year there are offered certain *prescribed subjects* required of all students and in addition five *group options*, the last four of which are outlined for the purpose of affording systematic training along certain important lines of applied chemistry. The first option, A, is intended for those students who wish to place chief emphasis upon the fundamental branches of chemistry as a science and for those students who desire a combination of subjects not outlined in the other four groups. Students in option A must submit to their adviser at the beginning of the junior year an outline of their proposed program for the junior and senior years. Approval of such an outline must be secured from the adviser before registering. At least 12 hours of the electives under option A must be in chemistry and it is recommended that they be selected as far as possible from more advanced courses in inorganic, analytical, organic, and physical chemistry. In all groups, except B, 10 hours of the electives must be taken outside of the department and must include a course in economics.

The groups provided for, with the letter used to designate each group, are as follows:

- A. General
- B. Electrochemical
- C. Industrial
- D. Food and Sanitation
- E. Physiological

Curriculum in Chemistry

FIRST YEAR

FIRST SEMESTER	Hours ¹	SECOND SEMESTER	Hours ¹
Chem. 1 or 1a—Inorganic Chemistry.....	5 or 3	Chem. 3a—Inorganic Chemistry and Qualitative Analysis.....	6
German or French.....	4	German or French.....	4
Math. 2—College Algebra.....	3	Math. 6—Analytical Geometry.....	5
Math. 4—Plane Trigonometry.....	2	Phys. Tr. 2—Gymnasium.....	1
Rhet. 1—Rhetoric and Themes.....	3	Mil. 1—Drill Regulations.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2b—Military Drill.....	1
Mil. 2a—Military Drill.....	1		
Total.....	19 or 17	Total.....	18

SECOND YEAR

Chem. 5a—Quantitative Analysis.....	5	Chem. 5b—Advanced Analytical Chemistry...	5
French or German.....	4	French or German.....	4
Phys. 1a—General Physics.....	3	History 2 or 3 or English 20.....	3
Phys. 3a—Physical Measurements.....	2	Phys. 1b—General Physics.....	2
Rhet. 2—Rhetoric and Themes.....	3	Phys. 3b—Physical Measurements.....	2
Mil. 2c—Military Drill.....	1	Mil. 2d—Military Drill.....	1
Total.....	18	Total.....	17

¹Semester hours. For definition see page 247.

THIRD YEAR

Prescribed for all Groups

Chem. 9a—Organic Synthesis and Ultimate Analysis.....	2
Chem. 14a—Organic Chemistry.....	4
Chem. 92a—Journal Meeting.....	1
Math. 8—Differential and Integral Calculus.....	5

Total.....12

Group Options

A.—General Electives.....	5
¹ B.—Electrochemical Economics 1; or Economics 2 with 3 additional hours other than chemistry. 5	
C.—Industrial Chem. 65—Technical Gas and Fuel Analysis.....	2
E. E. 8—Electric Currents and Apparatus.....	3
E. E. 68—Electrical Engineering Laboratory.....	1
D. and E.—Food and Physiological Bact. 5—Introductory Bacteriology.....	5

Prescribed for all Groups

Chem. 9b—Organic Synthesis and Qualitative Analysis.....	2
Chem. 14b—Principles of Organic Chemistry.....	2
Chem. 31—Principles of Physical Chemistry.....	4
Chem. 33—Physical Chemistry Laboratory.....	2
Chem. 92b—Journal Meeting.....	1
Chem. 90—Inspection Trip.....	0

Total.....11

Group Options

A.—General Electives.....	5
B.—Electrochemical E. E. 8—Electric Currents and Apparatus.....	3
E. E. 68—Electrical Engineering Laboratory.....	1-7
Math. 9.....	3
C.—Industrial Elective.....	6
D. and E.—Food and Physiological Chem. 15—Physiological Chemistry.....	5
Elective.....	2-7

FOURTH YEAR

Prescribed for all Groups

Chem 11a—Research.....	3
Chem. 93a—Journal Meeting.....	1
Chem. 95—History of Chemistry.....	2

Total.....6

Group Options

A.—General Electives.....	11
B.—Electrochemical Chem. 35—Electrochemistry.....	3
Chem. 37—Experimental Problems in Physical and Electrochemistry.....	4
Electives.....	2-11
Phys. 4a—Electrical and Magnetic Measurements.....	2
C.—Industrial Chem. 7—Metallurgy.....	3
Chem. 35—Electrochemistry.....	3
Chem. 69—Met. Lab. and Assaying.....	2
Electives.....	3-11
D.—Food and Sanitation Chem. 5c—Food Analysis.....	5
Chem. 21—Qual. Organic Analysis.....	2
Electives.....	3-10
E.—Physiological Chem. 15a.....	5
Electives.....	5-10

Prescribed for all Groups

Chem. 6—Chemical Technology.....	3
Chem. 11b—Research.....	7
Chem. 93b—Journal Meeting.....	1
Chem. 91—Inspection Trip.....	0

Total.....11

Group Options

A.—General Electives.....	5
B.—Electrochemical Electives.....	2-5
Philos. 1—Logic.....	3
C.—Industrial Chem. 61—Industrial Laboratory.....	3
Electives.....	3-6
D. and E.—Food and Physiological Electives.....	5

Curriculum in Chemical Engineering

The work of the technical chemist or superintendent is frequently so closely associated with mechanical and other engineering lines as to make a knowledge of these subjects essential. To meet these conditions, the following four-year curriculum in chemistry and related engineering subjects has been arranged. The degree given is that of Bachelor of Science in chemical engineering.

Preliminary preparation in German equivalent to two years of high school or one year of university work is *prescribed*. It is also advised that students intending to take this curriculum be prepared to offer mechanical drawing for entrance or arrange to take General Engineering Drawing 1 or S1.

¹Students electing Option B must register in Mathematics 7.

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Chem. 1a or 1—Inorganic Chemistry.....	3 or 5	Chem. 3a—Inorganic Chemistry and Qualitative Analysis.....	6
Ger. 4—Prose Reading.....	4	Ger. 6—Scientific German.....	4
Math. 2—College Algebra.....	3	Math. 6—Analytical Geometry.....	5
Math. 4—Plane Trigonometry.....	2	Phys. Tr. 2—Gymnasium.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene..	1	Mil. 2b—Military Drill.....	1
Mil. 2a—Military Drill.....	1	Mil. 1—Drill Regulations.....	1
Total.....	14 or 16	Total.....	18

SECOND YEAR

Chem. 5a—Quantitative Analysis.....	5	Chem. 5b—Advanced Analytical Chemistry... 5	
Math. 8—Differential and Integral Calculus..	5	Phys. 1b—General Physics.....	2
Phys. 1a—General Physics.....	3	Phys. 2b—Physical Measurements.....	2
Phys. 3a—Physical Measurements.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 2c—Military Drill.....	1	Mil. 2d—Military Drill.....	1
Total.....	19	Total.....	16

THIRD YEAR

Chem. 9a—Organic Synthesis and Ultimate Analysis.....	2	Chem. 9b—Organic Synthesis and Qualitative Organic Analysis.....	2
Chem. 14a—Organic Chemistry.....	4	Chem. 14b—Organic Chemistry.....	2
Chem. 92a—Journal Meeting.....	1	Chem. 31—Physical Chemistry.....	4
T. and A. M. 21—Analytical Mechanics.....	2	Chem. 33—Physical Chemistry Laboratory... 2	
T. and A. M. 25—Resistance of Materials... 4		Chem. 92b—Journal Meeting.....	1
E. E. 8—Electric Currents and Apparatus... 3		M. E. 75—Forge Work.....	1
E. E. 68—Electrical Engineering Laboratory.. 1		M. E. 77—Foundry Work.....	2
Total.....	17	Inspection Trip.....	0
		Electives outside of the department.....	3
		Total.....	17

FOURTH YEAR

Chem. 7—General Metallurgy and Iron and Steel.....	3	Chem. 6—Chemical Technology.....	3
Chem. 11a—Research.....	3	Chem. 11b—Research.....	6
Chem. 35—Electrochemistry.....	3	Chem. 61—Industrial Chemical Laboratory... 3	
Chem. 65—Technical Gas and Fuel Analysis.. 2		Chem. 93b—Journal Meeting.....	1
Chem. 69—Assaying.....	2	M. E. 64—Mechanical Engineering Laboratory 3	
Chem. 93a—Journal Meeting.....	1	Inspection trip.....	
M. E. 1—Steam and Air Machinery.....	3	Total.....	16
Total.....	17		

¹Semester hours. For definition, see page 247.

THE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

For a description of the *building* used by this College, see page 52, for *museum and collections* belonging to it, see page 62; for *societies and clubs* auxiliary to its curriculums, see page 102; for *fees*, see page 110.

ORGANIZATION

The College of Commerce and Business Administration was established by the Board of Trustees in April, 1915, and opened the following September. The new college was given control of all the work formerly conducted by the department of economics, including the courses in business administration. The work of the college is divided into three separate departments as follows: economics, including finance and statistics; business organization and operation, including accountancy and business law; and transportation.

PURPOSE

The purpose of the College of Commerce and Business Administration is to give its students a knowledge of the principles underlying all lines of business with special training for particular business callings. The College does not attempt to prepare students for clerical and similar occupations as employees, but does endeavor to lay a broad foundation on which successful careers in managerial and administrative positions and as proprietors may be built. To this end courses in economics, accountancy, business organization and operation, banking, commerce, railway administration, and industry are offered in combination with courses in language and literature, the social sciences, law, mathematics, and the natural sciences.

ADMISSION

See the statement of the entrance requirements of the University, pages 66-84.

SPECIAL STUDENTS

See the statement of the general regulations of the University in regard to special students, page 72.

REQUIREMENTS FOR GRADUATION

I. The New Requirements—Degree of Bachelor of Science

Students who entered the College of Commerce and Business Administration with the class of 1919 and subsequent classes will be given the degree of Bachelor of Science.

The requirements for this degree are as follows:

1. A candidate must comply with the University requirements as to residence and registration and secure credit amounting to 130 hours including the general University requirements of *Rhetoric 1 and 2, 6 hours; and Physical Training, 1, 1a, and 2, 2 hours*, for men, and *7a-7b and 9, 3 hours*, for women; and *Military Science 1, 2a-2b, and 2c-2d, 5 hours*, for men.

2. A candidate must secure credit in the subjects listed as *prescribed* in his chosen curriculum.

3. Of the electives allowed, 8 hours must be in either English literature or foreign language in all curriculums except the Curriculum in Foreign Commerce and the Curriculum for Commercial Teachers, in which foreign language is prescribed.

4. In the General Business Curriculum, the Curriculum in Banking, the Curriculum in Insurance, the Curriculum in Accountancy, the Curriculum in Railway Administration, and the Curriculum for Commercial and Civic Secretaries, 12 hours must be elected in the following group of subjects: history, political science, philosophy, psychology, and sociology, provided that not less than six hours in any one subject may be counted in fulfilling the requirement.

5. In all curriculums in which less than 10 hours of mathematics is prescribed in the first year, 10 hours must be elected in the following group of subjects: chemistry, geology, mathematics, and physics, provided that not less than 5 hours in any one subject may be counted in fulfilling the requirement.

Students are advised to take the subjects required in paragraphs 3, 4, and 5 as early as possible in their course in order to leave more opportunity for free electives in the last years. In choosing free electives students must secure the advice and approval of the Dean of the College or of the official adviser for the curriculums they are pursuing.

II. The Old Requirements—Degree of Bachelor of Arts

The graduation requirements for former students in the Courses in Business Administration enrolled in the College of Commerce and Business Administration will remain as they have been in the past and such students will be given the degree of Bachelor of Arts.

The requirements are as follows:

1. Credit amounting to 130 hours, including the prescribed rhetoric, physical training, and military.

2. At least 8 hours in each of the following groups of subjects:

- I. English language and literature, including rhetoric.
- II. Latin, Greek, French, German, Italian, Spanish.
- III. History, economics, sociology, political science.
- IV. Mathematics, education, philosophy, psychology.
- V. Astronomy, botany, chemistry, entomology, geology, physiology, physics, zoology.

3. Credit in the following subjects:

- I. Six hours of freshman economics (Economics 7, 22, 26, and 27). In case of students transferring from other colleges with advanced standing this requirement may be modified to suit individual needs.
- II. Principles of Economics (Economics 1).
- III. Business Writing (Rhetoric 10), Senior Conference on Written Work (Rhetoric 25-26).
- IV. Principles of Accounting (Accountancy 1a-1b).
- V. Commercial Law (Business Law 1a-1b).

4. A Major of 24 hours in economics, but not more than six hours of freshman economics (Economics 7, 22, 26, and 27) may be counted towards the major. Courses in accountancy and business law may not be counted towards the major.

NOTE.—The outlines of the curriculums on the following pages must be used in connection with the foregoing statement of requirements and attention must be given to the additional subjects prescribed in the third and fourth years under the old requirements for graduation.

THE CURRICULUMS

The curriculums offered in the College and outlined in the following pages furnish training for (1) general business, (2) commercial and civic secretaries, (3) banking, (4) insurance, (5) accountancy, (6) general railway administration, (7) railway transportation, (8) commercial teachers, (9) foreign commerce, (10) industrial administration, (11) commerce and law.

Some of the curriculums are now in process of transition owing to the recent reorganization of the work in commerce and business administration and the adoption of new requirements for graduation.

The curriculums in commerce and business administration are now in process of transition as a result of the reorganization of the former *Courses in Business Administration* as the *College of Commerce and Business Administration*. The outlines which follow show the complete curriculums under the new requirements for graduation and the third and fourth years under the old requirements for graduation.

The subjects listed in each curriculum under the new requirements are prescribed for graduation. Sufficient electives must be taken each semester to make up a minimum of 15 hours, but not to exceed a maximum of 18 hours of work. In choosing electives the attention of students is called to provisions 3, 4, and 5 of the new requirements for graduation. It is advisable that the electives there mentioned be taken as far as possible in the first two years in order to leave more opportunity for free electives in the last two years.

Curriculum in General Business

Under the New Requirements for Graduation

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours ¹				Hours ¹
Acc'y 1a—Principles of Accounting.....	3	Acc'y. 1b—Principles of Accounting.....	3	Econ. 22—Economic History of the United States.....	3
Econ. 26—Economic Resources.....	3	Rhet. 2—Rhetoric and Themes.....	3	Phys. Tr. 2—Gymnasium.....	1
Rhet. 1—Rhetoric and Themes.....	3	Mil. 1—Drill Regulations.....	1	Mil. 2b—Military Drill.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.....	1	Electives.....	3-6		
Mil. 2a—Military Drill.....	1				
Electives.....	4-7				
Total.....	15-18				
		SECOND YEAR			
Acc'y 2a—Advanced Accounting and Auditing.....	3	Acc'y 2b—Advanced Accounting and Auditing.....	3	Econ. 3—Money and Banking.....	3
Econ. 1—Principles of Economics.....	5	Econ. 10—Corporation Management and Finance.....	3	Rhet. 22—Summarizing and Briefing.....	2
Rhet. 10—Business Writing.....	2	Trans. 12—Freight Shipment.....	2	Electives.....	3-6
Mil. 2c—Military Drill.....	1				
Electives.....	4-7				
Total.....	15-18				
		THIRD YEAR			
		Bus. Org. & Op. 1—Business Organization and Operation.....	3	Bus. Law 1b—Commercial Law.....	3
		Bus. Law 1a—Commercial Law.....	3	Bus. Org. & Op. 2—Organization and Control of Mercantile Distribution.....	2
		Econ. 28—Domestic Commerce.....	3	Econ. 10—Corporation Management and Finance.....	3
		Trans. 1—Transportation System of the United States.....	3	Rhet. 22—Summarizing and Briefing.....	2
		Electives.....	3-6	Trans. 12—Freight Shipment.....	2
				Electives.....	3-6
		Total.....	15-18	Total.....	15-18

¹Semester hours. For definition, see page 247.

FOURTH YEAR

Bus. Org. & Op. 7—Salesmanship.....	2
Econ. 5—Public Finance.....	3
Rhet. 25—Conference on Written Work.....	1
Electives.....	9-12

Total.....15-18

Bus. Org. & Op. 8—Advertising.....	2
Econ. 31—Organization of Foreign Commerce.....	3
Rhet. 26—Conference on Written Work.....	1
Electives.....	9-12

Total.....15-18

Under the Old Requirements for Graduation

THIRD YEAR FOR THE CLASS OF 1918

Prescribed Subjects

Acc'y 1a—Principles of Accounting.....	3
Bus. Org. & Op. 1—Business Organization and Operation.....	3
Econ. 28—Domestic Commerce.....	3

Total.....9

Suggested Electives

Econ. 5—Public Finance.....	3
History.....	3
Psych. 1—Psychology.....	3
Rhet. 22—Summarizing and Abstracting.....	2
Trans. 1—Transportation System.....	3

Prescribed Subjects

Acc'y 1b—Principles of Accounting.....	3
Econ. 10—Corporation Management.....	3
Econ. 31—Organization of Foreign Commerce.....	3
Trans. 12—Freight Shipment.....	2

Total.....11

Suggested Electives

Econ. 11—Industrial Consolidations.....	3
History.....	3
Psych. 2—Psychology.....	3
Trans. 2—Transportation Policy.....	3

FOURTH YEAR FOR THE CLASS OF 1917

Prescribed Subjects

Bus. Law 1a—Commercial Law.....	3
Rhet. 25—Conference on Written Work.....	1

Total.....4

Suggested Electives

Acc'y 2a—Advanced Accounting and Auditing.....	3
Bus. Org. and Op. 7—Salesmanship.....	2
Econ. 4—Financial History of U. S.....	3
Econ. 12a—Labor Problems.....	3
Phil. 9—Political Ethics.....	2

Prescribed Subjects

Bus. Law 1b—Commercial Law.....	3
Rhet. 26—Conference on Written Work.....	1

Total.....4

Suggested Electives

Acc'y 2b—Advanced Accounting and Auditing.....	3
Bus. Org. and Op. 4—Industrial Organization and Management.....	2
Bus. Org. and Op. 8—Advertising.....	2
Econ. 12b—Labor Problems.....	3

Curriculum for Commercial and Civic Secretaries

Under the New Requirements for Graduation

The first and second years of this curriculum are the same as in the General Business Curriculum except that Political Science 1—American Government (3)—is prescribed in the first semester of the second year, while Rhetoric 10—Business Writing (2)—is transferred to the second semester.

FIRST SEMESTER

Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 28—Domestic Commerce.....	3
Pol. Sci. 4—Municipal Government.....	3
Sociol. 8—Charities.....	3
Electives.....	3-6

Total.....15-18

THIRD YEAR

Hours¹

Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 10—Corporation Management and Finance.....	3
Rhet. 22—Summarizing and Briefing.....	2
Trans. 12—Freight Shipment.....	2
Electives.....	6-9

Total.....15-18

SECOND SEMESTER

Hours¹

FOURTH YEAR

Bus. Law 1a—Commercial Law.....	3
Econ. 5—Public Finance.....	3
Econ. 51—Public Utilities.....	3
Rhet. 25—Conference on Written Work.....	1
Electives.....	5-8

Total.....15-18

Bus. Law 1b—Commercial Law.....	3
Bus. Org. and Op. 8—Advertising.....	2
Bus. Org. and Op. 9—Commercial and Civic Organizations.....	1
Hort. 10b—Town Improvement.....	2
Rhet. 26—Conference on Written Work.....	1
Electives.....	6-9

Total.....15-18

¹Semester hours. For definition, see page 247.

Under the Old Requirements for Graduation

THIRD YEAR FOR THE CLASS OF 1918

Prescribed Subjects

Acc'y 1a—Principles of Accounting.....	3
Econ. 28—Domestic Commerce.....	3
Pol. Sci. 13—State Administration.....	3
Pol. Sci. 4—Municipal Government.....	3

Total.....12

Suggested Electives

Bus. Org. and Op. 1—Business Organization and Operation.....	3
Phil. 9—Political Ethics.....	2
Sociology 1—Principles of Sociology.....	3

Prescribed Subjects

Acc'y 1b—Principles of Accounting.....	3
Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 31—Organization of Foreign Commerce.....	3
Econ. 10—Corporation Management.....	3
Sociology 8—Charities.....	3

Total.....14

Suggested Electives

Econ. 11—Industrial Consolidation.....	3
Econ. 34—Property Insurance.....	2
Pol. Sci. 12—National Administration.....	3
Pol. Sci. 16—Government of Illinois.....	2
Rhet. 22—Summarizing and Abstracting.....	2

FOURTH YEAR FOR THE CLASS OF 1917

Prescribed Subjects

Bus. Law. 1a—Commercial Law.....	3
Bus. Org. and Op. 7—Salesmanship.....	2
Rhet. 25—Conference on Written Work.....	1

Total.....6

Suggested Electives

Econ. 12a—Labor Problems.....	3
Econ. 11—Industrial Consolidations.....	3
Sociology 10—Population.....	3
Trans. 1—Transportation System.....	3

Prescribed Subjects

Bus. Law 1b—Commercial Law.....	3
Bus. Org. and Op. 4—Industrial Organization and Management.....	2
Bus. Org. and Op. 9—Commercial and Civic Organizations.....	1
Bus. Org. and Op. 8—Advertising.....	2
Rhet. 26—Conference on Written Work.....	1
Trans. 12—Freight Shipment.....	2

Total.....11

Suggested Electives

Econ. 21—Socialism and Economic Reform...	2
Econ. 12b—Labor Problems.....	3
Sociology 9—Criminology.....	3

Curriculum in Banking

Under the New Requirements for Graduation

The first and second years are the same as in the General Business Curriculums except that Mathematics 2—College Algebra (3) is prescribed in the first semester of the first year.

THIRD YEAR

FIRST SEMESTER

Hours¹

Bus. Org. and Op. 1—Business Organization and Operation.....	3
Bus. Law 1a—Commercial Law.....	3
Econ. 5—Public Finance.....	3
Econ. 28—Domestic Commerce.....	3
Electives.....	3-6

Total.....15-18

SECOND SEMESTER

Hours¹

Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Bus. Law 1b—Commercial Law.....	3
Econ. 10—Corporation Management and Finance.....	3
Math. 23—Mathematics of Investment.....	3
Electives.....	4-7

Total.....15-18

FOURTH YEAR

Econ. 9—Practical Banking.....	2
Econ. 4—Financial History of the United States.....	3
Rhet. 25—Conference on Written Work.....	1
Electives.....	9-12

Total.....15-18

Econ. 8—The Money Market.....	2
Econ. 31—Organization of Foreign Commerce.....	3
Rhet. 26—Conference on Written Work.....	1
Electives.....	9-12

Total.....15-18

¹Semester hours. For definition, see page 247.

Under the Old Requirements for Graduation

THIRD YEAR FOR THE CLASS OF 1918

Prescribed Subjects

Acc'y 1a—Principles of Accounting.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 5—Public Finance.....	3
Econ. 28—Domestic Commerce.....	3
Total.....	12

Suggested Electives

History.....	
Psych. 1—Introduction to Psychology.....	3
Trans. 1—Transportation System.....	3

Prescribed Subjects

Acc'y 1b—Principles of Accounting.....	3
Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 10—Corporation Management.....	3
Math. 23—Mathematics of Investment.....	3
Total.....	11

Suggested Electives

Econ. 29—Foreign Commerce.....	3
Econ. 31—Organization of Foreign Commerce.....	3
History.....	
Trans. 12—Freight Shipment.....	2

FOURTH YEAR FOR THE CLASS OF 1917

Bus. Law 1a—Commercial Law.....	3
Econ. 4—Financial History of United States..	3
Econ. 9—Practical Banking.....	2
Rhet. 25—Conference on Written Work.....	1
Total.....	9

Suggested Electives

Acc'y 2a—Advanced Accounting and Auditing.....	3
Econ. 12a—Labor Problems.....	3
Econ. 33—Economics of Insurance.....	2
Phil. 9—Political Ethics.....	2

Bus. Law 1b—Commercial Law.....	3
Econ. 8—The Money Market.....	2
Rhet. 26—Conference on Written Work.....	1
Total.....	6

Suggested Electives

Acc'y 2b—Advanced Accounting and Auditing.....	3
Bus. Org. and Op. 4—Industrial Organization and Management.....	2
Econ. 12b—Labor Problems.....	3
Econ. 34—Property Insurance.....	2

Curriculum in Insurance

Under the New Requirements for Graduation

FIRST YEAR

FIRST SEMESTER

Hours¹

Acc'y 1a—Principles of Accounting.....	3
Econ. 26—Economic Resources.....	3
Math. 2—College Algebra.....	3
Math. 4—Trigonometry.....	2
Rhet. 1—Rhetoric and Themes.....	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene..	1
Mil. 2a—Military Drill.....	1
Electives.....	0-2
Total.....	16-18

SECOND SEMESTER

Hours¹

Acc'y 1b—Principles of Accounting.....	3
Econ. 22—Economic History of the United States.....	3
Math. 6—Analytic Geometry.....	5
Rhet. 2—Rhetoric and Themes.....	3
Phys. Tr. 2—Gymnasium.....	1
Mil. 1—Drill Regulations.....	1
Mil. 2b—Military Drill.....	1
Electives.....	0-1
Total.....	17-18

SECOND YEAR

Acc'y 2a—Advanced Accounting and Auditing.....	3
Econ. 1—Principles of Economics.....	5
Math. 8—Differential and Integral Calculus.....	5
Mil. 2c—Military Drill.....	1
Electives.....	1-4
Total.....	15-18

Acc'y 2b—Advanced Accounting and Auditing.....	3
Econ. 3—Money and Banking.....	3
Rhet. 10—Business Writing.....	2
Mil. 2d—Military Drill.....	1
Electives.....	6-9
Total.....	15-18

THIRD YEAR

Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 5—Public Finance.....	3
Econ. 28—Domestic Commerce.....	3
Electives.....	3-6
Total.....	15-18

Bus. Law 1b—Commercial Law.....	3
Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 10—Corporation Management and Finance.....	3
Math. 23—Mathematics of Investment.....	3
Electives.....	4-7
Total.....	15-18

¹Semester hours. For definition, see page 247.

FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2	Bus. Org. and Op. 8—Advertising.....	2
Econ. 33—Economics of Insurance.....	2	Econ. 34—Property Insurance.....	2
Econ. 9—Practical Banking.....	2	Math. 31—Actuarial Theory.....	3
Math. 31—Actuarial Theory.....	3	Rhet. 26—Conference on Written Work.....	1
Rhet. 23—Conference on Written Work.....	1	Electives.....	7-10
Electives.....	5-8		
Total.....	15-18	Total.....	15-18

Under the Old Requirements for Graduation

THIRD YEAR FOR THE CLASS OF 1918

Prescribed Subjects

Acc'y 1a—Principles of Accounting.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Math. 31—Actuarial Theory.....	3
Total.....	9

Suggested Electives

Econ. 5—Public Finance.....	3
Foreign Language continued.....	
Hist. 1a—European History.....	4
Hist. 3a—History of United States.....	3

Prescribed Subjects

Acc'y 1b—Principles of Accounting.....	3
Econ. 10—Corporation Management.....	3
Total.....	6

Suggested Electives

Foreign Language continued.....	
Hist. 3b—History of United States.....	3
Hist. 1b—European History.....	4
Phil. 1—Logic.....	3

FOURTH YEAR FOR THE CLASS OF 1917

Prescribed Subjects

Bus. Law 1a—Commercial Law.....	3
Econ. 33—Economics of Insurance.....	2
Rhet. 25—Conference on Written Work.....	1
Total.....	6

Suggested Electives

Bus. Org. and Op. 7—Salesmanship.....	2
Econ. 4—Financial History of United States.....	3
Econ. 9—Practical Banking.....	2
Econ. 12a—Labor Problems.....	3
Phil. 9—Political Ethics.....	2
Total.....	12

Prescribed Subjects

Bus. Law 1b—Commercial Law.....	3
Econ. 34—Property Insurance.....	2
Rhet. 26—Conference on Written Work.....	1
Total.....	6

Suggested Electives

Bus. Org. and Op. 4—Industrial Organization and Management.....	2
Bus. Org. and Op. 8—Advertising.....	2
Econ. 8—Money Market.....	2
Econ. 12b—Labor Problems.....	3
Total.....	9

Curriculum in Accountancy

Under the New Requirements for Graduation

The first and second years are the same as in the General Business Curriculum except that Mathematics 2—College Algebra (3) is prescribed in the first semester of the first year.

THIRD YEAR

FIRST SEMESTER

Hours¹

Acc'y 3a—Accounting Problems and Audit- ing.....	3
Bus. Law. 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 28—Domestic Commerce.....	3
Electives.....	3-6

Total.....15-18

SECOND SEMESTER

Hours¹

Acc'y 3b—Accounting Problems and Audit- ing.....	3
Bus. Org. and Op. 2—Organization and Con- trol of Mercantile Distribution.....	2
Bus. Law 1b—Commercial Law.....	3
Econ. 10—Corporation Management and Finance.....	3
Math. 23—Mathematics of Investment.....	3
Electives.....	1-4

Total.....15-18

FOURTH YEAR

Acc'y 5a—C. P. A. Problems.....	2
Econ. 9—Practical Banking.....	2
Econ. 11—Industrial Consolidations.....	3
Rhet. 25—Conference on Written Work.....	1
Electives.....	5-8

Total.....15-18

Acc'y 5b—C. P. A. Problems.....	2
Rhet. 26—Conference on Written Work.....	1
Electives.....	12-15

Total.....15-18

¹Semester hours. For definition, see page 247.

Under the Old Requirements for Graduation

THIRD YEAR FOR THE CLASS OF 1918

Prescribed Subjects

Acc'y 2a—Advanced Accounting and Auditing.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 5—Public Finance.....	3
Total.....	9

Suggested Electives

Acc'y 4a—Cost Accounting.....	3
Econ. 28—Domestic Commerce.....	3
Rhet. 22—Summarizing and Abstracting.....	2

Prescribed Subjects

Acc'y 2b—Advanced Accounting and Auditing.....	3
Econ. 10—Corporation Management.....	3
Math. 23—Mathematics of Investment.....	3
Total.....	9

Suggested Electives

Acc'y 4b—Cost Accounting.....	3
Econ. 29—Foreign Commerce or	
Econ. 31—Organization of Foreign Commerce	3

FOURTH YEAR FOR THE CLASS OF 1917

Prescribed Subjects

Acc'y 3a—Accounting Problems and Auditing.....	3
Bus. Law 1a—Commercial Law.....	3
Rhet. 25—Conference on Written Work.....	1
Total.....	7

Suggested Electives

Econ. 11—Industrial Consolidation.....	3
Econ. 9—Practical Banking.....	2
Econ. 12a—Labor Problems.....	3
Phil. 9—Political Ethics.....	2

Prescribed Subjects

Acc'y 3b—Accounting Problems and Auditing.....	3
Bus. Law 1b—Commercial Law.....	3
Rhet. 26—Conference on Written Work.....	1
Total.....	7

Suggested Electives

Bus. Org. and Op. 4—Industrial Organization and Management.....	2
Econ. 8—Money Market.....	2
Econ. 12b—Labor Problems.....	3

Curriculum in Railway Administration

Under the New Requirements for Graduation

The first year of this curriculum is the same as the first year of the Curriculum in Insurance.

SECOND YEAR

FIRST SEMESTER

Hours¹

Acc'y 2a—Advanced Accounting and Auditing.....	3
Econ. 1—Principles of Economics.....	5
Rhet. 10—Business Writing.....	2
Trans. 7—Railway Organization.....	2
Mil. 2a—Military Drill.....	1
Electives.....	2-5
Total.....	15-18

SECOND SEMESTER

Hours¹

Acc'y 2b—Advanced Accounting and Auditing.....	3
Econ. 3—Money and Banking.....	3
Trans. 12—Freight Shipment.....	3
Mil. 2d—Military Drill.....	1
Electives.....	6-9
Total.....	15-18

THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation.....	3
Bus. Law 1a—Commercial Law.....	3
Trans. 1—Transportation System of the United States.....	3
Trans. 13—Railway Traffic Administration or	
Trans. 17—Railway Terminal Management.....	3
Electives.....	3-6
Total.....	15-18

Bus. Law 1b—Commercial Law.....	3
Trans. 2—Transportation Policy in Europe and the United States.....	3
Trans. 22—Railway Train Service or	
Trans. 26—Economics of Railway Location and Maintenance.....	3
Electives.....	6-9
Total.....	15-18

FOURTH YEAR

Econ. 12a—Labor Problems.....	3
Econ. 28—Domestic Commerce.....	3
Rhet. 25—Conference on Written Work.....	1
Trans. 17—Railway Terminal Management or	
Trans. 13—Railway Traffic Administration	3
Electives.....	5-8
Total.....	15-18

Econ. 10—Corporation Management and Finance.....	3
Econ. 12b—Labor Problems.....	3
Rhet. 26—Conference on Written Work.....	1
Trans. 26—Economics of Railway Location and Maintenance or	
Trans. 22—Railway Train Service.....	3
Electives.....	5-8
Total.....	15-18

¹Semester hours. For definition, see page 247.

Under the Old Requirements for Graduation

THIRD YEAR FOR THE CLASS OF 1918

FIRST SEMESTER

Acc'y 2a—Advanced Accounting and Auditing.....	3
Trans. 1—Transportation System.....	3
Trans. 17—Railway Terminal Management or	
Trans. 13—Railway Traffic Administration..	3
Electives.....	6-9
Total.....	15-18

SECOND SEMESTER

Acc'y 2b—Advanced Accounting and Auditing.....	3
Econ. 10—Corporation Management.....	3
Math. 23—Mathematics of Investment.....	3
Trans. 26—Economics of Railway Location and Maintenance or	
Trans. 22—Railway Train Service.....	3
Trans. 2—Transportation Policy in Europe and United States.....	3
Electives.....	0-3
Total.....	15-18

FOURTH YEAR FOR THE CLASS OF 1917

Acc'y 3a—Accounting Problems and Auditing.....	3
Bus. Law 1a—Commercial Law.....	3
Rhet. 25—Conference on Written Work.....	1
Trans. 13—Railway Traffic Administration or	
Trans. 17—Railway Terminal Management.....	3
Trans. 35a—Thesis.....	2
Electives.....	3-6
Total.....	15-18

Acc'y 3b—Accounting Problems and Auditing.....	3
Bus. Law 1b—Commercial Law.....	3
Rhet. 26—Conference on Written Work.....	1
Trans. 26—Economics of Railway Location and Maintenance or	
Trans. 22—Railway Train Service.....	3
Trans. 35b—Thesis.....	2
Electives.....	3-6
Total.....	15-18

Curriculum in Railway Transportation

Under the New Requirements for Graduation

FIRST YEAR

FIRST SEMESTER

Hours¹

Acc'y 1a—Principles of Accounting.....	3
G. E. D. 1—Elements of Drafting.....	4
Math. 2—Advanced Algebra.....	3
Math. 4—Trigonometry.....	2
Rhet. 1—Rhetoric and Themes.....	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.	1
Mil. 2a—Military Drill.....	1
Electives.....	0-1
Total.....	17-18

SECOND SEMESTER

Hours¹

Acc'y 1b—Principles of Accounting.....	3
G. E. D. 2—Descriptive Geometry.....	4
Rhet. 2—Rhetoric and Themes.....	3
Math. 6—Analytic Geometry.....	5
Phys. Tr. 2—Gymnasium.....	1
Mil. 1—Drill Regulations.....	1
Mil. 2b—Military Drill.....	1
Total.....	18

SECOND YEAR

Econ. 1—Principles of Economics.....	5
Math. 8—Differential and Integral Calculus.....	5
Physics 1a—General Physics.....	3
Physics 3a—Physical Measurements.....	2
Trans. 7—Railway Organization.....	2
Mil. 2c—Military Drill.....	1
Total.....	18

Econ. 3—Money and Banking.....	3
Physics 1b—General Physics.....	2
Physics 3b—Physical Measurements.....	2
Rhet. 10—Business Writing.....	2
Trans. 12—Freight Shipment.....	2
T. & A. M. 20—Analytical Mechanics.....	3
Mil. 2d—Military Drill.....	1
Electives.....	0-3
Total.....	15-18

THIRD YEAR

Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Trans. 1—Transportation System of the United States.....	3
Trans. 13—Railway Traffic Administration or	
Trans. 17—Railway Terminal Management.....	3
Electives.....	3-6
Total.....	15-18

Bus. Law 1b—Commercial Law.....	3
C. E. 76—Surveying.....	2
M. E. 2—Steam Engineering.....	3
Trans. 2—Transportation Policy in Europe and the United States.....	3
Trans. 22—Railway Train Service or	
Trans. 26—Economics of Railway Location and Maintenance.....	3
Electives.....	1-4
Total.....	15-18

¹Semester hours. For definition, see page 247.

FOURTH YEAR

Econ. 12a—Labor Problems.....	3	E. E. 12—Alternating Current Apparatus...	3
E. E. 11—Direct Current Apparatus.....	3	E. E. 62—Alternating Current Laboratory...	1
M. E. 61—Direct Current Laboratory.....	1	Econ. 10—Corporation Management and Finance or	
M. E. 61—Power Measurement.....	2	Econ. 12b—Labor Problems.....	3
Rhet. 25—Conference on Written Work.....	1	Rhet. 26—Conference on Written Work.....	1
Trans. 17—Railway Terminal Management or		Trans. 26—Economics of Railway Location and Maintenance or	
Trans. 13—Railway Traffic Administration	3	Trans. 22—Railway Train Service.....	3
Electives.....	2-5	Electives.....	4-7
Total.....	15-18	Total.....	15-18

Under the Old Requirements for Graduation

THIRD YEAR FOR THE CLASS OF 1918

FIRST SEMESTER

T. & A. M. 21—Analytical Mechanics.....	2
T. & A. M. 29—Resistance of Materials.....	5
Trans. 1—Transportation System.....	3
Trans. 13—Railway Administration or	
Trans. 17—Railway Terminal Management..	3
Electives.....	3-5
Total.....	15-18

SECOND SEMESTER

M. E. 2—Steam Engineering.....	3
Trans. 2—Transportation Policy in Europe and the United States.....	3
Trans. 22—Railway Train Service or	
Trans. 26—Economics of Railway Location and Maintenance.....	3
Electives.....	6-9
Total.....	15-18

FOURTH YEAR FOR THE CLASS OF 1917

Acc'y 1a—Principles of Accounting.....	3
Econ. 12a—Labor Problems.....	3
E. E. 11 and 61—Direct Current.....	4
M. E. 62—Mechanical Engineering.....	3
Rhet. 25—Conference on Written Work.....	1
Trans. 17—Railway Terminal Management or	
Trans. 13—Railway Traffic Administration...	3
Trans. 35a—Thesis.....	2
Total.....	19

Acc'y 1b—Principles of Accounting.....	3
C. E. 76—Surveying.....	2
Econ. 12b—Labor Problems.....	3
E. E. 12 and 62—Alternating Current.....	4
Rhet. 26—Conference on Written Work.....	1
Trans. 26—Economics of Railway Location and Maintenance or	
Trans. 22—Railway Train Service.....	3
Trans. 35b—Thesis.....	2
Total.....	18

Curriculum for Commercial Teachers

Under the New Requirements for Graduation

The first and second years are the same as in the General Business Curriculum except that foreign language is prescribed in the first year, and Psychology 1—Introduction to Psychology (3) and Psychology 2—General Psychology (3) in the second year.

THIRD YEAR

FIRST SEMESTER

	Hours ¹
Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Educ. 1—Introduction to Education.....	4
Pol. Sci. 1—American Government.....	3
Trans. 1—Transportation System of the United States	3
Electives.....	0-2
Total.....	16-18

SECOND SEMESTER

	Hours ¹
Bus. Law 1b—Commercial Law.....	3
Econ. 10—Corporation Management and Finance.....	3
Educ. 2—History of Education.....	5
Pol. Sci. 3—State and Local Government...	3
Trans. 12—Freight Shipment.....	2
Electives.....	2-5
Total.....	15-18

FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2
Econ. 28—Domestic Commerce.....	3
Educ. 15—Social Education.....	3
Rhet. 25—Conference on Written Work.....	1
Electives.....	6-9
Total.....	15-18

Bus. Org. and Op. 8—Advertising.....	2
Econ. 29—Foreign Commerce or	
Econ. 31—Organization of Foreign Commerce.....	3
Educ. 10—The Technique of Teaching.....	3
Rhet. 26—Conference on Written Work.....	1
Electives.....	6-9
Total.....	15-18

¹Semester hours. For definition, see page 247.

Under the Old Requirements for Graduation

THIRD YEAR FOR THE CLASS OF 1918

Prescribed Subjects

Acc'y 1a—Principles of Accounting.....	3
Econ. 10—Corporation Management.....	3
Econ. 28—Domestic Commerce.....	3
Educ. 1—Principles of Education.....	4
Total.....	13

Suggested Electives

Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 5—Public Finance.....	3
Foreign language continued	
History.....	
Phil. 1—Logic.....	3
Pol. Sci. 4—Municipal Government.....	3
Rhet. 22—Summarizing and Abstracting.....	2

Prescribed Subjects

Acc'y 1b—Principles of Accounting.....	3
Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 29—Foreign Commerce or	
Econ. 31—Organization of Foreign Commerce.....	3
Educ. 2—History of Education.....	5
Total.....	13

Suggested Electives

Educ. 6—Principles of Secondary School Education.....	3
Foreign language continued.....	
History.....	
Phil. 2—Introduction to Philosophy.....	3

FOURTH YEAR FOR THE CLASS OF 1917

Prescribed Subjects

Bus. Law 1a—Commercial Law.....	3
Econ. 12a—Labor Problems.....	3
Educ. 10—Observation and Technics of Teaching.....	3
Rhet. 25—Conference on Written Work.....	1
Total.....	10

Suggested Electives

Acc'y 2a—Advanced Accounting and Auditing.....	3
Bus. Org. and Op. 3—Business Procedure.....	2
Econ. 4—Financial History of United States.....	3
Econ. 9—Practical Banking.....	2
Phil. 9—Political Ethics.....	2

Prescribed Subjects

Bus. Law 1b—Commercial Law.....	3
Econ. 12b—Labor Problems.....	3
Educ. 16—Social Education or	
Educ. 15—School Hygiene.....	2 or 3
Rhet. 26—Conference on Written Work.....	1
Total.....	9 or 10

Suggested Electives

Acc'y 2b—Advanced Accounting and Auditing.....	3
Bus. Org. and Op. 4—Industrial Organization and Management.....	2
Econ. 8—The Money Market.....	2
Econ. 21—Socialism and Economic Reform.....	2
Trans. 12—Freight Shipment.....	2

Curriculum in Foreign Commerce

Under the New Requirements for Graduation

The first and second years of this curriculum are the same as in the General Business Curriculum except that foreign language is prescribed throughout both years.

THIRD YEAR

FIRST SEMESTER

	Hours ¹
Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 28—Domestic Commerce.....	3
Foreign language.....	2 or 3
Hist. 3a—History of the United States.....	3
Electives.....	0-3
Total.....	16-18

SECOND SEMESTER

	Hours ¹
Bus. Law 1b—Commercial Law.....	3
Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 29—Foreign Commerce.....	3
Econ. 10—Corporation Management and Finance.....	3
Foreign language.....	2 or 3
Hist. 3b—History of the United States.....	3
Electives.....	0-1
Total.....	17-18

FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2
Econ. 9—Practical Banking.....	2
Advanced history.....	3
Pol. Sci. 6—International Law.....	3
Rhet. 25—Conference on Written Work.....	1
Electives.....	4-7
Total.....	15-18

Econ. 8—The Money Market.....	2
Econ. 31—Organization of Foreign Commerce.....	3
Pol. Sci. 7—American Diplomacy.....	3
Advanced history.....	3
Rhet. 26—Conference on Written Work.....	1
Electives.....	3-6
Total.....	15-18

¹Semester hours. For definition, see page 247.

Curriculum in Industrial Administration

Under the New Requirements for Graduation

The following curriculum is intended to meet the needs of commerce students planning to enter the administrative or selling departments of industrial plants. To the usual courses in economics, accounting, etc., are added certain groups of technical courses offered by other colleges of the University. For the present four such groups have been arranged, as follows: Group A, for those interested in the machine industries; Group B, the electrical industries; Group C, the building trades; Group D, the chemical industries. The student may select such one of these groups as will be most advantageous to him in his future work, but is required to take all the courses listed in the chosen group. The student electing the chemical industries group is required to take Econ. 26—Economic Resources (3) and Econ. 22—Economic History of the United States (3), instead of G. E. D. 1—Elements of Drafting (4) and G. E. D. 2—Descriptive Geometry (4), in the first year; and Chem. 1 or 1a—Inorganic Chemistry (5 or 3), instead of Economics 22—Economic History of the United States (3) and T. & A. M. 20—Analytical Mechanics (3), in the second year.

FIRST YEAR

FIRST SEMESTER

	Hours ¹
Acc'y 1a—Principles of Accounting.....	3
G. E. D. 1—Elements of Drafting.....	4
Math. 2—College Algebra.....	3
Math. 4—Trigonometry.....	2
Rhet. 1—Rhetoric and Themes.....	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.	1
Mil. 2a—Military Drill.....	1
Electives.....	0-1
Total.....	17-18

SECOND SEMESTER

	Hours ¹
Acc'y 1b—Principles of Accountancy.....	3
G. E. D. 2—Descriptive Geometry.....	4
Math. 6—Analytic Geometry.....	5
Rhet. 2—Rhetoric and Themes.....	3
Phys. Tr. 2—Gymnasium.....	1
Mil. 1—Drill Regulations.....	1
Mil. 2b—Military Drill.....	1
Electives.....	0 or 1
Total.....	17-18

SECOND YEAR

Econ. 1—Principles of Economics.....	5
Math. 8—Differential and Integral Calculus.....	5
Phys. 1a—General Physics.....	3
Phys. 3a—Physical Measurements.....	2
Rhet. 10—Business Writing.....	2
Mil. 2c—Military Drill.....	1
Total.....	18

Econ. 3—Money and Banking.....	3
Econ. 23—Statistics.....	3
Phys. 1b—General Physics.....	2
Phys. 3b—Physical Measurements.....	2
Econ. 22—Economic History of the United States.....	3
T. & A. M. 20—Analytical Mechanics.....	3
Mil. 2d—Military Drill.....	1
Electives.....	0-1
Total.....	17-18

THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation.....	3
Bus. Law 1a—Commercial Law.....	3
Trans. 1—Transportation System of the United States.....	3
Prescribed technical courses, Group A, B, C, or D.....	2-6
Electives.....	0-7
Total.....	15-18

Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Bus. Law 2b—Commercial Law.....	3
Trans. 12—Freight Rates.....	2
Prescribed technical courses, Group A, B, C, or D.....	3-6
Electives.....	2-8
Total.....	15-18

FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2
Econ. 12a—Labor Problems or electives.....	3
Rhet. 25—Conference on Written Work.....	1
Prescribed technical courses, Group A, B, C, or D.....	3-9
Electives.....	0-9
Total.....	15-18

Bus. Org. and Op. 8—Advertising.....	2
Rhet. 26—Conference on Written Work.....	1
Econ. 12b—Labor Problems or	
Econ. 10—Corporation Management and Finance.....	3
Prescribed technical courses, Group A, B, C, or D.....	2-10
Electives.....	0-10
Total.....	15-18

¹Semester hours. For definition, see page 247.

Optional Groups of Technical Courses

GROUP A:

FIRST SEMESTER		THIRD YEAR		SECOND SEMESTER	
	Hours ¹				Hours ¹
T. & A. M. 21—Analytical Mechanics.....	2		M. E. 75—Forge Work.....		1
			M. E. 77—Foundry Work.....		2
			M. E. 2—Steam Engineering.....		3
FIRST SEMESTER		FOURTH YEAR		SECOND SEMESTER	
M. E. 61—Power Measurement.....	2		E. E. 12—Alternating Current Apparatus....		3
M. E. 81—Machine Work.....	3		E. E. 62—Alternating Current Laboratory....		1
E. E. 11—Direct Current Apparatus.....	3				
E. E. 61—Direct Current Laboratory.....	1				

GROUP B:

FIRST SEMESTER		THIRD YEAR		SECOND SEMESTER	
T. & A. M. 21—Analytical Mechanics.....	2		M. E. 2—Steam Engineering.....		3
FIRST SEMESTER		FOURTH YEAR		SECOND SEMESTER	
M. E. 61—Power Measurement.....	2		E. E. 12—Alternating Current Apparatus....		3
E. E. 11—Direct Current Apparatus.....	3		E. E. 62—Electrical Engineering Laboratory .		1
E. E. 61—Electrical Engineering Laboratory .	1		E. E. 90—Lighting.....		1

GROUP C:

FIRST SEMESTER		THIRD YEAR		SECOND SEMESTER	
Arch. Eng. 43—Working Drawings.....	2		T. & A. M. 26—Analytical Mechanics and		
T. & A. M. 25—Resistance of Materials.....	4		Hydraulics.....		4
			Arch. Eng. 44—Working Drawings.....		2
FIRST SEMESTER		FOURTH YEAR		SECOND SEMESTER	
Arch. Eng. 45—Graphic Statics.....	3		C. E. 76—Surveying.....		2

GROUP D:

FIRST SEMESTER		THIRD YEAR		SECOND SEMESTER	
Chem. 2a—Inorganic Chemistry and Quali-			Chem. 5a—Elementary Quantitative Analy-		
tative Analysis.....	5		sis.....		5
FIRST SEMESTER		FOURTH YEAR		SECOND SEMESTER	
Chem. 9c—Organic Synthesis.....	2		Chem. 6—Chemical Technology.....		3
Chem. 14a—Organic Chemistry.....	4		Chem. 31—Elementary Physical Chemistry... 4		
Chem. 92a—Journal Meeting.....	1		Chem. 33—Elementary Physical Chemistry... 2		
			Chem. 92b—Journal Meeting.....		

Curriculum in Commerce and Law

(A six-year combined curriculum)

Under the New Requirements for Graduation

The following curriculum is provided for students who wish to combine commercial and legal studies and secure both the degree of Bachelor of Science and the degree of Bachelor of Laws or of Doctor of Law in six years. Students who elect this curriculum must meet all the requirements for graduation from the College of Commerce and Business Administration, but in exercising their privileges of election are urged to select as many hours as possible from the following subjects: Hist. 2a-2b, English History (6); Hist. 3a-3b, United States History (6); Hist. 4a-4b, English Constitutional History (6); Pol. Sci. 1, American Government (3); and Pol. Sci. 3, State and Local Government (3). Students expecting to study law should devote at least 12 hours to work in history and political science. A course

¹Semester hours. For definition, see page 247.

in English history is regarded as one of the most essential pre-legal subjects. The law courses in the curriculum may be taken only in the fourth year, and are counted for 30 hours of credit towards the degree, instead of hour for hour, provided the full year's work is completed. In their fourth year students will be regularly registered in the College of Law, but must file copies of their study-lists in the office of the Dean of the College of Commerce and Business Administration at the beginning of each semester.

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Acc'y 1—Principles of Accounting.....	3	Acc'y 1b—Principles of Accounting.....	3
Econ. 26—Economic Resources.....	3	Econ. 22—Economic History of the United States.....	3
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.....	1	Phys. Tr. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	1	Mil. 1—Drill Regulations.....	1
Electives.....	4-7	Mil. 2b—Military Drill.....	1
		Electives.....	3-6
Total.....	15-18	Total.....	15-18

SECOND YEAR

Acc'y 2—Advanced Accounting and Auditing.....	3	Acc'y 2b—Advanced Accounting and Auditing.....	3
Econ. 1—Principles of Economics.....	5	Econ. 3—Money and Banking.....	3
Rhet. 10—Business Writing.....	2	Phil. 1—Logic.....	3
Mil. 2c—Military Drill.....	1	Mil. 2d—Drill.....	1
Electives.....	4-7	Electives.....	5-8
Total.....	15-18	Total.....	15-18

THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 5—Public Finance.....	3	Econ. 10—Corporation Finance.....	3
Econ. 28—Domestic Commerce.....	3	Electives.....	10-13
Electives.....	6-9		
Total.....	15-18	Total.....	15-18

FOURTH YEAR

Law 1a—Contracts.....	4	Law 1b—Contracts.....	3
Law 2a—Torts.....	3	Law 2b—Torts.....	3
Law 5—Criminal Law.....	4	Law 3—Real Property.....	3
Law 6—Personal Property.....	2	Law 7—Domestic Relations.....	2
Law 37—Introduction of Study of Law.....	1	Law 11—Agency.....	3
Total.....	14	Total.....	14

¹Semester hours. For definition, see page 247.

COLLEGE OF ENGINEERING

For a description of the *buildings* used by this College, see page 52, for *collections* belonging to it, see page 62; for *clubs* and *societies auxiliary to its curriculums*, see page 102; for *fees*, see page 110; for *honors*, see page 87; for *honorary societies*, see page 101.

GENERAL STATEMENT

The purpose of the College is to train men for the profession of engineering. In arranging its curriculums, cultural subjects are interwoven with the theoretical subjects of the several departments. The instruction of the class-room and the practise afforded by the library, the drafting room, and the laboratory are correlated. Throughout his course the student works on problems and proceeds by methods similar to those which arise in the experience of the practising engineer.

ADMISSION

See the statement of the entrance requirements of the University, pages 66-84.

SPECIAL STUDENTS

See the statement of the regulations of the University in regard to special students, page 72.

DESCRIPTION OF DEPARTMENTS

The College of Engineering comprises the following departments:

DEPARTMENT OF ARCHITECTURE, with curriculums in—

Architecture

Architectural Engineering

DEPARTMENT OF CERAMIC ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENT OF ELECTRICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MINING ENGINEERING

DEPARTMENT OF MUNICIPAL AND SANITARY ENGINEERING

DEPARTMENT OF PHYSICS

DEPARTMENT OF RAILWAY ENGINEERING,¹ with curriculums in—

Railway Civil Engineering

Railway Electrical Engineering

Railway Mechanical Engineering

ARCHITECTURE

The department of architecture offers two curriculums leading to the first degree, the curriculum in architecture and the curriculum in architectural engineering. The aim of these curriculums is to give preparation for the practise of architecture.

The curriculum in architecture aims primarily to train the student to produce correct, thoughtful, and beautiful works of architecture. The schedule includes

¹The School of Railway Engineering and Administration (page 194) offers, in addition to the three curriculums named here, curriculums in railway transportation and railway administration under the direction of the College of Commerce and Business Administration. See pages 137-139 above.

liberal and scientific subjects to supply the background for creative work and to give a knowledge of the principles involved in the processes of safe and economical construction; also freehand drawing for the purpose of training the eye to recognize correct proportion and training the hand to skilful and rapid drawing. The curriculum, however, consists mainly of the study of architectural forms and principles and their application in architectural design. From time to time the problems of the Society of Beaux Arts of Architects are given and the student drawings sent to New York for judgment.

The curriculum in architectural engineering gives a groundwork in mathematics and applied mechanics, and includes such studies as strength of materials, bridge, mill, and tall building construction, reinforced concrete, etc. The principles of these subjects are applied to all forms of building construction in a course given in the senior year, known as architectural engineering. While specializing in construction, this curriculum includes also the study of the forms and principles of architecture through such subjects as free-hand drawing, architectural history, architectural drawing and architectural design.

Both curriculums in architecture prepare the student for the examinations of the Illinois State Board of Examiners of Architects, and graduates are exempt from examinations required for entrance into the American Institute of Architects, and from the preliminary examination for the prize in Architecture of the American Academy at Rome. The Plym Fellowship in Architecture is awarded annually to a graduate of the department. This prize, which is awarded by competition, amounts to \$1,000 and provides for one year of travel abroad for the study of architecture.

The American Institute of Architects offers annually a medal to be awarded to the graduate of the department whose work throughout the four years has been adjudged the best. In making the award the scholarship in all work for the entire curriculum is considered.

The J. C. Llewellyn prize of fifty dollars is offered to the seniors in architectural engineering for the best solution of a given engineering problem.

The Scarab Medal in Architecture is awarded annually to a student of the Department. This prize is a bronze medal which is awarded by competition.

Students intending to take up the study of architecture should take free-hand and mechanical drawing and general history in high school.

Equipment

The collections of rendered and working drawings, lantern slides, plates, photographs, casts, specimens of American woods, building materials, and appliances are noted under "Collections" on page 62. A Balopticon is used for direct projection of photographs and colored plates, and a double electric lantern for projecting two pictures on the screen at once for comparative study. Geometrical and architectural models are lighted by a light properly adjusted for demonstration of the subjects of shades and shadows and conventional rendering. Wall space in the corridors of the department and in all drafting rooms has been prepared for exhibition purposes, and collections of drawings are constantly displayed. The department occupies the fourth floor of Engineering Hall, and part of the third; its quarters include drafting rooms for undergraduate and graduate work, library, lecture rooms, and studios for free-hand drawing.

CERAMIC ENGINEERING

This department offers courses in instruction relating to the fabrication of clay products, cement, and glass, and enamels for metals.

In addition to the fundamental engineering courses, work is offered in the physical and chemical principles of the production of silicate products, the winning and

preparation of raw materials, their shaping, drying, and burning, or fusion, the compositions and application of the various glazes, glasses, enamels, and colors, the planning and construction of industrial plants, and of the various machines, apparatus, kilns, and furnaces used in these plants.

Industrial cooperation and research are prosecuted, and a series of bulletins on ceramic subjects is being published.

Equipment

The department of ceramic engineering is housed in a modern three-story brick building providing ample facilities in the way of lecture rooms, class rooms, and laboratories.

The ceramic laboratories contain apparatus for the testing of clays and the preparation of cements, enamels, and glasses; machinery for grinding the raw materials, for shaping bricks, tiles, saggars, pottery and refractories; kilns and furnaces for calcining and fusing; pyrometers, potentiometers, electric furnaces, recording instruments, and all other accessories for exact scientific and technical work.

A library pertaining to the silicate industries is available; also sets of working drawings representing the construction of important plants.

CIVIL ENGINEERING

The purpose of the Department is to make possible a systematic study of the principles of engineering and to give the students an opportunity for practise in the survey, design, and construction of public and other engineering works. The prime object is to bring about the development of the mental faculties of the student, particularly of his initiative, and to help him obtain a good grasp of the needs and opportunities afforded by engineering in general.

Equipment

For the surveying courses there is a full equipment of engineers' transits, levels, plane-tables, and other instruments in use not only in ordinary and in railroad surveying, but also in more precise work.

In a building set apart for the purpose is a well equipped road laboratory containing machines for testing bituminous and non-bituminous road materials, including brick, stone, and other road-making substances. The cement laboratory occupies a room in this building. It is provided with facilities for testing hydraulic cement, sand, and other aggregates used in concrete.

ELECTRICAL ENGINEERING

This department provides a curriculum in the theory and application of electricity. The first two years of work are substantially the same as in the other engineering curriculums, including work in drafting room and shop, and instruction in the principles of mathematics and physics. In the third year a course in dynamo machinery is followed by the theory of alternating currents, while laboratory and design courses emphasize principles. Technical courses cover the generation, transmission, and distribution of electric power, and its various applications. In the laboratory a study of dynamos is followed in the fourth year by experiments in the operation of electrical machinery. Investigation of problems of power distribution is made in advanced laboratory and thesis work.

Equipment

The 500-kilowatt power plant of the University supplies the electrical engineering laboratory with current for its operation.

The power equipment in the electrical engineering laboratory includes eighty-five direct current machines with a total capacity of 450 kilowatts, thirty-five alternating current machines with a total capacity of 375 kilowatts, and sixty transformers with a total capacity of 375 kilowatts. A 17-panel experimental switchboard affords distribution and control.

The instrument room contains standards for the calibration of commercial instruments of all types, two hundred and fifty portable instruments for experimental work, and a 240 ampere-hour storage battery. The graduate laboratory contains apparatus for research, including four oscillographs, one 2,000-cycle alternator, one 200,000-volt transformer, one 1,000-ampere direct current generator, and apparatus for high voltage direct current investigations. The photometer room contains apparatus for tests of the various light sources. Two special 100-line switchboards are connected with cables and apparatus for experiment in telephony. The equipment for electrometallurgical work includes one 30-kilowatt induction furnace, one 25-kilowatt arc furnace, two 30-kilowatt resistance furnaces, one 15-kilowatt vacuum furnace for melting, one 3-kilowatt vacuum furnace for annealing, and one 1.5-kilowatt muffle furnace.

MECHANICAL ENGINEERING

The courses in mechanical engineering are planned to present the theory and practise of the generation and transmission of power, and of the design, construction, operation, and testing of machinery of all kinds. In the laboratories emphasis is given to the engineering and economic principles of machine construction and to the problems of scientific shop management.

Equipment

The Designing Rooms are supplied with drawing tables, and with reference books, files of trade catalogs, gear charts, and collections of blue-prints. A collection of kinematic models, sectional steam specialties, lantern slides, and photographs is also available.

The Mechanical Engineering Laboratory is equipped with machines and testing instruments for instruction in steam engineering, gas power engineering, refrigeration, heating, and ventilation, including a 210-horsepower experimental boiler, equipped with chain-grate stoker, fuel economizer, and induced draft; a separately fired steam superheater; types of throttling, high speed automatic, and Corliss steam engines; steam condensers; a compound two-stage air compressor; a large compound duplex steam pump; a Kerr steam turbine; a DeLaval turbo-pump; a 200,000-pound Lea water-flow; a 10-ton ammonia compression refrigerating machine; typical gas, gasoline, and oil engines; a 50-horsepower suction gas producer, house-heating boilers and furnaces; a 150-horsepower electric absorption and transmission dynamometer, and apparatus for instruction in heating and ventilation and the mechanical equipment of buildings. The central heating and power plant contains types of boilers, stokers, pumps, and engines in commercial service.

The Shop Laboratories are provided with machinery and apparatus to illustrate the process of the manufacture of machinery. The laboratories include the *Wood Shop* with an equipment of benches, lathes, machinery, and small tools needed in pattern construction; the *Foundry* equipped with cupola, brass furnaces, core ovens, molding machines, and facilities for bench and floor molding; the *Forge Shop* equipped with forges, anvils and small tools, a steam hammer, a power-driven punch and shear, and with gas and electric furnaces; and the *Machine Shop* with an equipment of lathes, planers, shapers, milling machines, grinders, boring mills, drill presses, and with typical small tools and fixtures used in manufacturing.

MECHANICS, THEORETICAL AND APPLIED

The courses in theoretical and applied mechanics are designed to meet the needs of students of engineering.

The *Laboratory of Applied Mechanics* comprises the materials testing laboratory and the hydraulics laboratory. The equipment of the *materials testing laboratory* includes testing machines and apparatus for making physical tests of materials of construction, such as tension, compression, flexure, shearing, torsion, hardness, and impact tests, and tests under repeated load. The laboratory contains machines of capacity for testing full size structural and machine members. Among these is a universal machine of six hundred thousand pounds capacity. The *Hydraulics laboratory* has facilities for furnishing water under a range of pressures and volumes. There is an equipment of devices for measuring and recording the flow of water, including measuring pits, water meters, weir channels, nozzles, pitometer, and Venturi meters. In the equipment are pumps, a standpipe, water motors, and a turbine water wheel for testing purposes. A supply of pressure gauges, weighing scales, and other auxiliary apparatus is provided.

MINING ENGINEERING

The department of mining engineering offers courses of instruction in mining and metallurgical engineering to train men for the various phases of the mineral industry.

The work of the department adds to the preliminary courses in mathematics, languages, chemistry, physics, geology, and general engineering, that are common to all courses in engineering, specialized work in mine surveying, mining methods, geology, prospecting, mine examination and valuation, ventilation, mining machinery, coal washing and ore concentration, metallurgy, utilization of fuels, administration and organization of mines, mining law, and the design of mining and metallurgical structures.

In addition to its work of instruction, the department concerns itself with the development and dissemination of scientific facts of service in improving the practise of mining, with reference to efficiency in operation, the security of life in the mines, and the conservation of the mineral resources of the State.

Equipment

The drawing rooms contain the catalogs of the manufacturers of mining machinery with a complete card index, the standard reference books on mine and mill design, and an unusually complete collection of photographs, blue-prints and drawings of mines, mine structures, and ore and coal preparation, and metallurgical plants.

The mine-gas and safety-lamp laboratory contains safety lamps of different types, electric and magnetic locking appliances, a photometer, a dark room for photometric work, Ryan Oldham, and Hailwood safety-lamp testing apparatus appliances for gas and dust analysis and explosibility tests, and a Bacharach hydro volume and pressure recorder.

The coal washing and ore dressing laboratory contains for crushing, rolls, gyratory and jaw crushers, and a 500-pound 3-stamp battery; for screening and sizing trommels, shaking and vibrating screens, and classifiers; for concentrating and cleaning, pan, piston and pulsating jigs, bumping table, vanner, sand, concentrating table, and slimer. These machines can handle from 3 or 5 tons of coal and one ton of ore an hour. There are also a complete sampling and drying equipment, a cyanide testing plant, a Huff electrostatic machine, flotation units, a magnetic separator and other appliances used for preliminary testing. Adjoining this lab-

oratory is a chemical and assay laboratory equipped for the analytical work required in connection with coal washing and ore concentration.

The explosives and drilling laboratory contains types of rock and coal drills, an air meter, a diamond drill, chain and puncher, coal cutters, and a complete outfit for demonstrating the use of explosives.

MINE RESCUE STATION AND LABORATORIES

Cooperating with the department of mining engineering and with the State Geological Survey, the Federal Government in 1909 established at the University a mine rescue station in charge of a resident mining engineer. The purpose of the station was to interest all connected with the mining industry in modern appliances and breathing and resuscitation apparatus as part of the normal equipment of mines. At the station mine bosses and others were trained in the use of such apparatus, this service being rendered freely to all who desired the benefits thereof.

A direct outcome of the cooperative rescue station has been the establishment of a comprehensive mine rescue service by the State of Illinois. This state service has rendered unnecessary the maintenance of the cooperative rescue station in Urbana. The station is now maintained by the University for the training of students, but the United States Bureau of Mines keeps certain apparatus on exhibition.

The Cooperative Investigation of Illinois mining conditions is another outgrowth of the mine rescue station. This cooperation between the University of Illinois, the Illinois State Geological Survey, and the United States Bureau of Mines has for the past five years carried on an investigation of the coal resources and the mining practise in the state.

A laboratory has been maintained for the study of mine dusts and mine gases which is also available for the use of mining classes in the University. The Bureau of Mines has stationed in Urbana two resident mining engineers.

MUNICIPAL AND SANITARY ENGINEERING

This curriculum is designed to train students for the duties of the engineer employed on the design, construction, and operation of public works and public utilities, and for general engineering work.

The methods of training are intended to develop power to take up and solve new problems connected with municipal public works, as well as to design and to superintend the ordinary constructions. Surveying, structural materials, and structural design are taught as in the civil engineering curriculum. Chemistry and bacteriology of water supply and sewage disposal are given; and instruction in mechanical and electrical engineering in the generation and transmission of power.

PHYSICS

The department of physics occupies the Laboratory of Physics. This building supplies facilities and equipment for instruction and investigation in physics. Gas, distilled water, compressed air and vacuum, and direct and alternating electric currents are available in all parts of the building. There is a collection of over 4,000 pieces of apparatus, and only a small part of the equipment is antiquated. New investigations can usually be started with the apparatus on hand. There are two workshops, one for advanced students and instructors, and one for the mechanics of the department. The students' shop is equipped with lathes, drill press, and bench tools. The mechanics' shop contains lathes, milling machines, drill press, and other facilities for fine machine work.

The University library contains sets of journals of physics and the related sciences in English, French, and German. The recent volumes of the physical

journals, together with a collection of text-books, encyclopedias, dictionaries, and other reference books, are in the special library of the Laboratory.

RAILWAY ENGINEERING¹

The department of railway engineering is organized to train students for service in the technical departments of railways. It offers curriculums in railway civil engineering, railway electrical engineering, and railway mechanical engineering, all three of which are substantially the same as the corresponding civil, electrical, and mechanical engineering curriculums to the middle of the third year, after which is given in each course a group of subjects relating to the technical problems of steam or electric railways. The curriculums in railway civil and railway mechanical engineering are designed for those who wish to enter steam railway service in the engineering and motive power departments respectively, while the curriculum in railway electrical engineering is intended for those who will serve on electric railways or in the electrical departments of steam roads. The special subjects of the curriculum in railway civil engineering concern the location, design, construction, and maintenance of railway track and equipment, and the design of railway structures. The courses in railway electrical engineering deal with the design and construction of electric railway equipment, the operation and performance of electric cars and locomotives, and with the problems which arise in the electrification of steam lines. The curriculum in railway mechanical engineering adds to the fundamentals of the general mechanical engineering curriculum special railway courses on the design of locomotives and cars, the resistance of trains, the performance and tests of locomotives, and tests of railway equipment.

Equipment

A locomotive testing plant, built from the original designs of the department, occupies a building forty by one hundred fifteen feet. The plant is devoted exclusively to making tests to determine the performance of locomotives. The locomotives tested are furnished by certain western railroad systems under an arrangement which insures the maintenance in the plant of a locomotive of latest design.

For purposes of instruction a light freight locomotive is permanently available in this laboratory. This locomotive, donated to the department by the Illinois Central Railroad, is of the mogul type, has 19x26 simple cylinders using saturated steam, 1,530 square feet of heating surface, 26 square feet of grate area, and weighs with its tender 206,000 pounds.

The department owns and operates, jointly with the Illinois Central Railroad, a railway test car designed for experimental work on steam roads. It is equipped for making train resistance and locomotive performance tests, and during the last fifteen years has been in frequent operation in carrying on resistance and tonnage rating tests on the Illinois Central Railroad and on several eastern roads.

For work on electric roads the department owns also an electric test car, of the interurban type, designed and built for the University. It is equipped with four 50-horsepower direct current motors and with the Westinghouse multiple control system, and is provided with instruments for recording power, speed, acceleration, and the other data needed in road tests, and for measuring and recording the electric resistance of rail bonds. Through the courtesy of the Illinois Traction System this car is operated on its lines, which enter the campus of the University.

The department laboratory equipment includes a drop-testing machine and a brake-shoe testing machine, both constructed in accordance with the standards of

¹See also *School of Railway Engineering and Administration*, page 194.

the Master Car Builders Association. The drop-testing machine is designed for use in testing the strength of railroad rails, car axles, car couplers, and draft gears; and may be used in studies of the physical properties of structural materials of any sort. The brake-shoe testing machine supplies means for determining the wearing properties and frictional qualities of brake-shoes, such as are employed in regular service on railroad trains.

Much of the work in the railway courses is given in the departments of civil, electrical, and mechanical engineering, and the shop and laboratory equipment of these departments is available for students of the railway department.

Three steam roads—the Illinois Central, the Cleveland, Cincinnati, Chicago & St. Louis, and the Wabash railroads—and two electric interurban roads—the Illinois Traction System and the Kankakee and Urbana railway—enter Champaign and Urbana. The department is afforded by them opportunities for practical road tests and field work.

APPROVED NON-TECHNICAL ELECTIVES

The following is a list of approved non-technical electives for students in the College of Engineering. In general, prerequisites must be observed.

Accountancy 10; Astronomy 3, 7, 8, 14, 15; Chemistry 16, 5a or 13a, 10b, 6, 7, 8, 31, 35, 65, 66, 69, 77, 78; Economics 1, 2, 3, 10, 12a-12b, 21, 25a-25b, 41; Education 1, 2, 16, 25, 41; English, and intermediate or advanced courses; French, any advanced courses; Geology 2, 5a, 13a, 13b, 14, 24; (for students in mining any course in geology for which the student has prerequisite); German, any third or fourth year courses; History 3a-3b; Italian 2a-2b; Mathematics 10, 16-17, 19, 21, 23, 27-28; Philosophy 1, 17; Physics 15, 16, 17, 20, 22, 23, 24, 25, 30, 31a-31b; Political Science 1, 3, 4; Psychology 1, 2, 3, 4; Rhetoric 17; Sociology 1, 3; Spanish 3a-3b, 4a-4b.

SUMMER READING

All engineering students not graduates of a literary college are required to complete prescribed courses of reading of a non-professional character during the summer vacations following the freshman and sophomore years. The purpose of the summer reading is to increase the acquaintance of the student with literature, history, and general science, to develop in him a taste for such reading, and to impress him with the importance of such knowledge not only as a source of individual enjoyment, but as an aid in social and business relations.

A circular on summer reading is issued, containing a list of books from which the student may choose. The books have been selected for their value in general training, but an attempt has been made to include only readable and attractive works. A statement of the books read during the summer is required at the beginning of the next college year.

GENERAL ENGINEERING LECTURES FOR FRESHMEN

One general lecture, sufficiently popular in character to interest and inspire young students, will be given each week. All freshman engineering students are required to attend this lecture.

TRIPS OF INSPECTION

Students in the College of Engineering are required to make a trip of inspection during their senior year. Such trips supply an opportunity to inspect the work of industrial establishments and of engineering enterprises. They usually occupy from three to four days, and are taken during term time, under the supervision of

University authorities. They involve an expense from \$15 to \$25 to each student. For the year 1917-1918, the trips will occur on November 8-10, 1917.

No student not in line for graduation shall be permitted to go on the annual inspection trip of the College of Engineering without the approval of the General Committee on Inspection Trips.

CURRICULUMS AND DEGREES

The curriculums leading to the degree of Bachelor of Science in the College of Engineering, as scheduled for the year 1916-1917, are given herewith in full. Each of the eleven curriculums given may ordinarily be completed in a period of four years.

A graduate of the University of Illinois in architectural, ceramic, civil, electrical, mechanical, mining, municipal and sanitary, or railway engineering may receive the degree of an allied curriculum on the completion of from thirty to thirty-six semester hours work approved by the faculty. This work may ordinarily be done in one academic year.

A graduate of the College of Liberal Arts and Sciences of the University of Illinois, or of any college of equal standing, whose mathematical training includes the calculus, who has had an acceptable course in physics, and sufficient training in mechanics to enable him to begin the mechanics of the junior year, may receive the degree of Bachelor of Science in Engineering on the completion of sixty-eight credit hours of work in engineering under the direction of the faculty. This work may ordinarily be done in two academic years. Candidates for the degree in the department of architecture are not required to be prepared in calculus or mechanics, but should have special preparation in drawing.

RHETORIC PREREQUISITE FOR JUNIOR STANDING

The University Senate has approved the following requirements in the subject of rhetoric:

1. Rhetoric 1 and 2 shall hereafter be a prerequisite for junior standing in the College of Engineering, and no student in this College shall be permitted to register in more than eight hours of prescribed junior work without having passed or being registered in Rhetoric 1 or 2.

2. Any student in this College whose written work shows that he is unable to use good English shall be reported by his instructor to a standing committee of the College, which committee shall have authority to direct the student to take as a prerequisite for graduation such additional work in rhetoric as may be prescribed by the department of English.

CURRICULUMS IN ENGINEERING

The several engineering curriculums are in process of transition between a former schedule followed by the classes entering prior to the year 1914-15, and a new schedule, effective for the freshman class of that year and subsequent classes.

The outlines which follow show the work of each year in the several curriculums as taught during 1916-17. *They do not show either the old or the new curriculum as a whole.* The "First Year" as here scheduled is for freshmen; and the "Second Year," "Third Year," and "Fourth Year," respectively, for regular sophomores, juniors, and seniors; but these schedules *must not be used* for checking up on a student's previous work in his course or in planning the work of subsequent years. For such check or planning consult with the Assistant Dean of the College.

Curriculum in Architecture

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Arch. 31 ² —Arch. and Freehand Drawing.....	4	Arch. 32—Arch. and Freehand Drawing.....	4
G. E. D. 2—Descriptive Geometry.....	4	Chem. 1a or 1b ³ —Inorganic Chemistry.....	3 or 4
Math. 2—Advanced Algebra.....	3	Rhet. 2—Rhetoric and Themes.....	3
Math. 4—Trigonometry.....	2	T. & A. M. 14—Elem. Mechanics.....	4
Rhetoric 1—Rhetoric and Themes.....	3	Engineering lecture.....	0
Engineering lecture.....	0	Phys. Tr. 2—Gymnasium.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.....	1	Mil. 1—Drill Regulations.....	1
Mil. 2a—Military Drill.....	1	Mil. 2b—Military Drill.....	1
Total.....	18	Total.....	17-18

Summer Reading, 50 points

SECOND YEAR

Arch. 13—History of Architecture.....	2	Arch. 14—History of Architecture.....	2
Arch. 23—Freehand Drawing.....	2	Arch. 24—Freehand Drawing.....	2
Arch. 33—Design.....	3	Arch. 34—Design.....	3
Arch. 43—Working Drawings.....	3	Arch. 44—Working Drawings.....	3
Phys. 9a—Physics Lectures.....	2	Phys. 9b—Physics Lectures.....	2
Phys. 10a—Physics Laboratory.....	2	Phys. 10b—Physics Laboratory.....	2
T. & A. M. 15—Strength of Materials.....	3	T. & A. M. 16—Strength of Materials.....	3
Mil. 2c—Military Drill.....	1	Mil. 2d—Military Drill.....	1
Total.....	18	Total.....	18

Summer Reading, 50 points

THIRD YEAR

Arch. 15—History of Architecture.....	2	Arch. 16—History of Architecture.....	2
Arch. 25—Freehand Drawing.....	2	Arch. 26—Freehand Drawing.....	2
Arch. 35—Design.....	5	Arch. 36—Design.....	5
Arch. 45—Graphic Statics.....	3	Arch. 46—Roofs.....	3
Arch. 55—Building Sanitation.....	1	Arch. 66—Theory of Architecture.....	1
Arch. 65—Theory of Architecture.....	1	E. E. 90—Building Illumination.....	1
French or German.....	4	French or German.....	4
Total.....	18	Total.....	18

FOURTH YEAR

Arch. 27—Freehand Drawing.....	2	Arch. 28—Freehand Drawing.....	2
Arch. 37—Design.....	7	Arch. 38—Advanced Design or Thesis.....	7
Arch. 67—Theory of Form and Color.....	2	Arch. 60—Special Lectures.....	1
M. E. 25—Heating and Ventilation.....	2	Arch. 68—Specifications.....	3
Arch. 99—Inspection trip.....	0	Non-technical elective ⁴	3
Non-technical elective ⁴	5		
Total.....	18	Total.....	16

Curriculum in Architectural Engineering as Taught in 1916-17

FIRST YEAR FOR CLASS OF 1920

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Desc. Geometry.....	4
Math. 2—Advanced Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Engineering lecture.....	0
Engineering lecture.....	0	Phys. Tr. 2—Gymnasium.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.....	1	Mil. 1—Drill Regulations.....	1
Mil. 2a—Military Drill.....	1	Mil. 2b—Military Drill.....	1
Total.....	17-18	Total.....	19

Summer Reading, 50 points

SECOND YEAR FOR CLASS OF 1919

Arch. 13—History of Architecture.....	2	Arch. 14—History of Architecture.....	2
A. E. 33—Arch. and Freehand Drawing.....	3	A. E. 34—Design.....	3
A. E. 43—Working Drawings.....	2	A. E. 44—Working Drawings.....	2
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	2
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 2c—Military Drill.....	1	T. & A. M. 20—Analytical Mech.....	3
		Mil. 2d—Military Drill.....	1
Total.....	18	Total.....	18

Summer Reading, 50 points

¹Semester hours. For definition, see page 247.²The numbers refer to courses in the Description of Courses, pages 247.³Students who have had chemistry in the high school equivalent to Chemistry 1b will register in Chemistry 1a.⁴Any approved non-technical course requiring sophomore standing. See printed list of approved non-technical electives, page 151.

THIRD YEAR FOR THE CLASS OF 1918

Arch. 15—History of Architecture.....	2	Arch. 16—History of Architecture.....	2
A. E. 35—Design.....	3	A. E. 36—Design.....	3
A. E. 45—Graphic Statics.....	3	A. E. 46—Graphic Statics.....	3
Chem. 1a or 1b—Inorganic Chem.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
T. & A. M. 25—Resistance of Materials.....	4	T. & A. M. 26—Analytic Mechanics and Hydraulics.....	4
Non-technical elective ¹	2	Non-technical elective ¹	2
Total.....	17—18	Total.....	18

FOURTH YEAR FOR THE CLASS OF 1917

A. E. 47—Architectural Engineering.....	5	A. E. 48—Architectural Engineering.....	5
A. E. 57—Fireproof Construction.....	2	A. E. 58—Fireproof Construction.....	2
A. E. 67—Building Sanitation.....	2	A. E. 68—Estimates and Specifications.....	4
M. E. 23—Mech. Equipment of Buildings.....	5	E. E. 92—Lighting and Wiring.....	2
A. E. 99—Inspection Trip.....	0	Non-technical elective ¹	3
Non-technical elective ¹	3		
Total.....	17	Total.....	16

Revised Curriculum in Ceramic Engineering

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours ²		Hours ²
Chem. 1a ³ or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Engineering lecture.....	0
Engineering lecture.....	0	Phys. Tr. 2—Gymnasium.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.....	1	Mil. 1—Drill Regulations.....	1
Mil. 2a—Military Drill.....	1	Mil. 2b—Military Drill.....	1
Total.....	17 or 18	Total.....	19

Summer Reading, 50 points

SECOND YEAR

Chem. 5a—Quantitative Analysis.....	5	Chem. 5b—Quantitative Analysis.....	5
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Min. 3—Mining Principles.....	2	Phys. 1b—Physics Lectures.....	2
Phys. 1a—Physics Lectures.....	3	Phys. 3b—Physics Laboratory.....	2
Phys. 3a—Physics Laboratory.....	2	Mil. 2d—Military Drill.....	1
Mil. 2c—Military Drill.....	1	Non-technical elective ¹	3
Total.....	18	Total.....	19

Summer Reading, 50 points

THIRD YEAR FOR THE CLASS OF 1918

Cer. 2—Winning and Preparation of Clays.....	3	Cer. 5—Ceramic Bodies.....	5
Chem. 65—Gas and Fuel Analysis.....	2	Cer. 3—Industrial Calculations.....	3
Language.....	4	Cer. 12—Designing and Shaping.....	3
T. & A. M. 21—Analytical Mechanics.....	2	C. E. 76—Surveying.....	2
T. & A. M. 25—Resistance of Materials.....	4	Language.....	4
Non-technical elective ¹	3		
Total.....	18	Total.....	17

FOURTH YEAR FOR THE CLASS OF 1917

Cer. 4—Drying and Burning.....	4	Cer. 8—Glass.....	2
Cer. 6—Glazes.....	5	Cer. 9—Ceramic Construction.....	4
Cer. 17—Physical Chemistry.....	3	Ceramic thesis or technical elective.....	3
Geol. 13a—Engineering Geology.....	3	Geol. 13b—Engineering Geology.....	3
Cer. 99—Inspection Trip.....	0	M. E. 62—Mech. Eng. Laboratory.....	3
Non-technical elective ¹	3		
Total.....	18	Total.....	15

¹Any approved non-technical course requiring sophomore standing. See printed list of approved non-technical electives, page 151.²Semester hours. For definition see page 247.³The numbers refer to courses in the Description of Courses, page 247.

Curriculum in Civil Engineering as Taught in 1916-17

FIRST YEAR FOR THE CLASS OF 1920

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Chem. 1a ² or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Inorganic Chemistry	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Mil. 2a—Military Drill	1	Mil. 1—Drill Regulations	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2b—Military Drill	1
Engineering lecture	0	Engineering lecture	0
Total	17 or 18	Total	19

Summer Reading, 50 points

SECOND YEAR FOR THE CLASS OF 1919

C. E. 27—Plane Surveying	3	C. E. 28—Higher Surveying	3
Language	4	Language	4
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lectures	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Mil. 2c—Military Drill	1	T. & A. M. 20—Analytical Mechanics	3
		Mil. 2d—Military Drill	1
Total	18	Total	18

Summer Reading, 50 points

THIRD YEAR FOR THE CLASS OF 1918

C. E. 51—Railroad Surveying	5	C. E. 52—Roads and Pavements	3
M. E. 1—Steam Engines and Boilers	3	C. E. 60—Structural Stresses	4
Non-technical elective ³	3	C. E. 62—Structural Details	2
T. & A. M. 21—Analytical Mechanics	2	C. E. 70—Seminar	1
T. & A. M. 29—Resistance of Materials	5	Non-technical elective ³	3
		T. & A. M. 10—Hydraulics	3
Total	18	Total	16

FOURTH YEAR FOR THE CLASS OF 1917

I. General Civil Engineering Option

C. E. 77—Masonry Construction	4	C. E. 80—Contracts and Specifications	2
C. E. 79—Cement Laboratory	1	E. E. 4—Elementary Electrical Engineering	2
C. E. 81—Theory of Reinforced Concrete	2	E. E. 64—Electrical Engineering Laboratory	1
C. E. 83—Steel Bridge Design	3	M. & S. E. 3—Sewerage	3
M. & S. E. 2—Water Supply Engineering	4	Non-technical elective ³	3
C. E. 99—Inspection Trip	0	Technical elective	5
Technical elective	3		
Total	17	Total	16

II. Structural Engineering Option

C. E. 77—Masonry Construction	4	C. E. 80—Contracts and Specifications	2
C. E. 79—Cement Laboratory	1	C. E. 82—Reinforced Concrete Design	4
C. E. 81—Theory of Reinforced Concrete	2	C. E. 88—Steel Building Design	3
C. E. 85—Steel Bridge Design	3	M. & S. E. 3—Sewerage	3
C. E. 87—Advanced Bridge Analysis	5	Non-technical elective ³	3
M. & S. E. 2—Water Supply Engineering	4		
C. E. 99—Inspection Trip	0		
Total	18	Total	15

III. Highway Engineering Option

C. E. 77—Masonry Construction	4	C. E. 80—Contracts and Specifications	2
C. E. 79—Cement Laboratory	1	C. E. 92—Concrete Bridges and Culverts	2
C. E. 81—Theory of Reinforced Concrete	2	C. E. 94—Highway Administration	3
C. E. 91—Highway Bridge Design	2	C. E. 96—Road Laboratory	2
C. E. 93—Road Construction	3	Chem. 73—Asphalt, Tar, etc.	2
M. & S. E. 2—Water Supply Engineering	4	Technical elective	4
C. E. 99—Inspection Trip	0		
Total	18	Total	15

¹Semester hours. For definition, see page 247.²The numbers refer to courses in the Description of Courses, page 247.

Any approved non-technical course. See page 151.

Technical Electives

C. E. 83—Steel Bridge Design.....	3	C. E. 76—General Surveying.....	2
C. E. 85—Steel Bridge Design.....	5	C. E. 82—Reinforced Concrete Design.....	4
C. E. 87—Advanced Bridge Analysis.....	2	C. E. 88—Steel Building Design.....	3
C. E. 91—Highway Bridge Design.....	4	C. E. 92—Concrete Bridges and Culverts.....	2
C. E. 93—Road Construction.....	3	C. E. 94—Highway Administration.....	3
C. E. 97—Thesis ¹	1	C. E. 96—Road Laboratory.....	2
Min. 6a—Mechanical Engineering of Mines.....	3	C. E. 98—Thesis ¹	2 or 3
R. E. 33—Economy of Railway Location.....	4	Chem. 73—Asphalts, Tar, etc.....	2
		E. E. 4—Electrical Engineering.....	2
		E. E. 64—Electrical Engineering Laboratory.....	1
		Min. 1—Earth and Rock Excavation.....	3
		M. & S. E. 3—Sewerage.....	3
		M. & S. E. 9—Hydraulic Design and Construction.....	2
		R. E. 31—Railway Yards and Terminals.....	3

Curriculum in Electrical Engineering as Taught in 1916-17

FIRST YEAR FOR THE CLASS OF 1920

FIRST SEMESTER	Hours ²	SECOND SEMESTER	Hours ²
Chem. 1a ³ or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Engineering lecture.....	0
Engineering lecture.....	0	Phys. Tr. 2—Gymnasium.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene 1	1	Mil. 1—Drill Regulations.....	1
Mil. 2a—Military Drill.....	1	Mil. 2d—Military Drill.....	1
Total.....	17 or 18	Total.....	19
Summer Reading, 50 points			

SECOND YEAR FOR THE CLASS OF 1919

Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
M. E. 75 and 77—Forge and Foundry, or		M. E. 75 and 77—Forge and Foundry, or	
M. E. 79—Pattern Work.....	3	M. E. 79—Pattern Work.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 2c—Military Drill.....	1	T. & A. M. 20—Analytical Mechanics.....	3
Total.....	18	Mil. 2d—Military Drill.....	1
Summer Reading, 50 points		Total.....	18

THIRD YEAR FOR THE CLASS OF 1918

Chem. 4—Qualitative Analysis.....	4	E. E. 26—Alternating Currents.....	4
E. E. 25—Direct Current Apparatus.....	4	E. E. 76—Electrical Engineering Laboratory.....	2
E. E. 75—Electrical Engineering Laboratory.....	2	M. E. 2—Steam Engineering.....	3
Math. 9a—Integral Calculus.....	2	Non-technical elective ⁴	3
Phys. 4a—Electrical and Magnetic Measurement.....	2	Phys. 4b—Electrical and Magnetic Measurement.....	2
T. A. M. 25—Resistance of Materials.....	4	T. & A. M. 26—Analytical Mechanics and Hydraulics.....	4
Total.....	18	Total.....	18

FOURTH YEAR FOR THE CLASS OF 1917

E. E. 35—Alternating Current Apparatus.....	4	E. E. 36—Alternating Current Apparatus.....	4
E. E. 55—Electrical Design.....	2	E. E. 56—Electrical Design.....	4
E. E. 85—Electrical Engineering Laboratory.....	2	E. E. 86—Electrical Engineering Laboratory.....	2
E. E. 95—Seminar.....	1	E. E. 96—Seminar.....	1
M. E. 11—Thermodynamics.....	3	E. E. 98—Thesis ¹ or elective.....	3
M. E. 61—Power Measurement.....	2	Non-technical elective ⁴	3
E. E. 99—Inspection Trip.....	0		
Non-technical elective ⁴	3	Total.....	17
Total.....	17	Total.....	17

¹Only students having high grades may elect a thesis.²Semester hours. For definition see page 247.³The numbers refer to courses in the Description of Courses, page 247.⁴Any approved non-technical elective. See page 151.

Curriculum in Mechanical Engineering as Taught in 1916-17

FIRST YEAR FOR THE CLASS OF 1920

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Chem. 1a ² or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1—Rhetoric and Themes	3	Engineering lecture	0
Engineering lecture	0	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 1—Drill Regulations	1
Mil. 2a—Military Drill	1	Mil. 2b—Military Drill	1
Total	17 or 18	Total	19

Summer Reading, 50 points

SECOND YEAR FOR THE CLASS OF 1919

Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
M. E. 75 and 77—Forge and Foundry, or		M. E. 75 and 77—Forge and Foundry, or	
M. E. 79—Pattern Work	3	M. E. 79—Pattern Work	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lectures	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Language	4	T. & A. M. 20—Analytical Mechanics	3
Mil. 2c—Military Drill	1	Language	4
		Mil. 2d—Military Drill	1
Total	18	Total	18

Summer Reading, 50 points

THIRD YEAR FOR THE CLASS OF 1918

M. E. 3—Steam Engineering	3	M. E. 12—Thermodynamics	5
M. E. 81—Machine Work	3	M. E. 30—Mechanics of Machinery	5
Math. 9a—Integral Mechanics	2	M. E. 64—Power Measurement	3
T. & A. M. 21—Analytical Mechanics	2	M. E. 82—Machine Work	2
T. & A. M. 29—Resistance of Materials	5	Non-technical elective ³	3
Non-technical elective ³	3		
Total	18	Total	18

FOURTH YEAR FOR THE CLASS OF 1917

E. E. 11—Direct Current Apparatus	3	E. E. 12—Alternating Current Apparatus	3
E. E. 61—Direct Current Laboratory	1	E. E. 62—Alternating Current Laboratory	1
M. E. 15—Gas Power Engineering or		M. E. 26—Heating and Ventilation	3
M. E. 37—Principles of Management	3	M. E. 32—Power Transmission	3
M. E. 43—Engineering Design	5	M. E. 44—Engineering Design or	
M. E. 65—Power Laboratory	3	M. E. 66—Power Laboratory	2
E. E. 99—Inspection Trip	0	M. E. 52—Power Plant Design	3
Non-technical elective ³	3		
Total	18	Total	15

Curriculum in Mining Engineering as Taught in 1916-17

FIRST YEAR FOR THE CLASS OF 1920

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Chem. 1a ² or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—College Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1—Rhetoric and Themes	3	Engineering lecture	0
Engineering lecture	0	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 1—Drill Regulations	1
Mil. 2a—Military Drill	1	Mil. 2b—Military Drill	1
Total	17 or 18	Total	19

Summer Reading, 50 points

¹Semester hours. For definition see page 247.²The numbers refer to courses in the Description of Courses, page 247.³Any approved non-technical course. See page 151.

SECOND YEAR FOR THE CLASS OF 1919

FIRST SEMESTER		SECOND SEMESTER	
Geol. 13a—Engineering Geology.....	3	Geol. 13b—Engineering Geology.....	3
Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 2c—Military Drill.....	1	T. & A. M. 20—Analytical Mechanics.....	3
		Mil. 2d—Military Drill.....	1
Total.....	18	Total.....	18

Summer Reading, 50 points

THIRD YEAR FOR THE CLASS OF 1918

Chem. 5d—Quantitative Analysis.....	4	C. E. 58—Graphic Statics.....	2
C. E. 35—Surveying.....	3	E. E. 4—Elementary Electrical Engineering	2
M. E. 1—Steam Engineering.....	3	E. E. 64—Electrical Engineering Labora-	
T. & A. M. 25—Resistance of Materials.....	4	tory.....	1
Min. 1—Earth and Rock Excavation ¹	3	Min. 4—Mining Methods ¹	3
		Min. 6—Mechanical Engineering of Mines ¹	2
		T. & A. M. 26—Analytical Mechanics and	
		Hydraulics.....	4
		Non-technical elective ²	3
Total.....	17	Total.....	17

FOURTH YEAR FOR THE CLASS OF 1917

I. Coal Mining Option

Chem. 7—Metallurgy.....	3	Min. 8—Mine Law, Administration, and	
Chem. 65—Technical Gas and Fuel An-		Accounts.....	3
alysis.....	2	Min. 13—Utilization of Coal.....	2
Min. 5—Mine Ventilation.....	3	Min. 42—Coal Plant Design.....	2
Min. 9—Coal and Ore Preparation.....	3	Min. 62—Mine Surveying.....	3
Min. 41—Principles of Coal Plant Design.....	3	Min. 64—Coal Mine Laboratory.....	3
Min. 99—Inspection Trip.....	0	Min. 63—Mine Topography.....	1
Non-technical elective ²	3	Min. 90—Journal Meeting.....	1
		Non-technical elective ²	3
Total.....	17	Total.....	18

II. Ore Mining Option

Chem. 7—Metallurgy.....	3	Geol. 2—Economic Geology.....	3
Chem. 69—Metallurgical Laboratory and		Min. 8—Mine Law, Administration, and	
Assaying.....	2	Accounts.....	3
Min. 15—Principles of Mine Ventilation.....	1	Min. 44—Ore Plant Design.....	2
Min. 19—Ore and Coal Preparation.....	3	Min. 62—Mine Surveying.....	3
Min. 21—Mine Examination and Valuation.....	2	Min. 66—Ore Concentration Laboratory.....	3
Min. 43—Principles of Ore Plant Design.....	3	Min. 90—Journal Meeting.....	1
Min. 99—Inspection Trip.....	0	Non-technical elective ²	3
Non-technical elective ²	3		
Total.....	17	Total.....	18

III. Metallurgical Option

Chem. 7—Metallurgy.....	3	Chem. 7a—Non-ferrous Metallurgy.....	3
Chem. 65—Technical Gas and Fuel An-		Chem. 78—Metallography.....	2
alysis.....	2	Min. 8—Administration and Accounts.....	2
Chem. 69—Metallurgical Laboratory and		Min. 46—Mill and Smelter Design.....	2
Assaying.....	2	Min. 66—Ore Concentration Laboratory.....	3
Min. 17—Problems.....	1	Min. 90—Journal Meeting.....	1
Min. 19—Ore and Coal Preparation.....	3	Min. 13—Utilization of Fuels.....	2
Min. 45—Mill and Smelter Design.....	3	Non-technical elective ²	3
Min. 99—Inspection trip.....	0		
Non-technical elective ²	3	Total.....	18
Total.....	17		

¹Students in Metallurgical Option take *First Semester*: Chemistry 7—General Metallurgy, instead of Min. 1; *Second Semester*: Chemistry 5b,—advanced Quantitative Analysis instead of Mining 4 and Mining 6.

²Any approved non-technical course. See page 151.

Curriculum in Municipal and Sanitary Engineering as Taught in 1916-17

FIRST YEAR FOR THE CLASS OF 1920

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Chem. 1a ² or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1—Rhetoric and Themes	3	Engineering lecture	0
Engineering lecture	0	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 1—Drill Regulations	1
Mil. 2a—Military Drill	1	Mil. 2b—Military Drill	1
Total	17 or 18	Total	19

Summer Reading, 50 points

SECOND YEAR FOR THE CLASS OF 1919

C. E. 27—Plane Surveying	3	C. E. 28—Higher Surveying	3
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lectures	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Language	4	T. & A. M. 20—Analytical Mechanics	3
Mil. 2c—Military Drill	1	Language	4
Total	18	Mil. 2d—Military Drill	1
		Total	18

Summer Reading, 50 points

THIRD YEAR FOR THE CLASS OF 1918

Botany 6—Bacteriology	2½	C. E. 62—Structural Details	2
Chem. 10b—Water Analysis	2½	C. E. 60—Structural Stresses	4
C. E. 53—Railroad Surveying	3	C. E. 52—Roads and Pavements	3
T. & A. M. 21—Analytical Mechanics	2	M. E. 2—Steam Engineering	3
T. & A. M. 29—Resistance of Materials	5	T. & A. M. 10—Hydraulics	3
Non-technical elective ³	2	Non-technical elective ³	3
Total	17	Total	18

FOURTH YEAR FOR THE CLASS OF 1917

C. E. 77—Masonry Construction	4	C. E. 62—Structural Details	2
C. E. 79—Cement Laboratory	1	C. E. 80—Contracts and Specifications	2
C. E. 81—Reinforced Concrete	2	E. E. 4—Elementary Electrical Engineering	2
M. E. 61—Steam Laboratory	2	E. E. 64—Electrical Engineering Laboratory 1	1
M. & S. E. 2—Water Supply Engineering	4	M. & S. E. 3—Sewerage	3
M. & S. E. 6a—Water Purification and Sewage Disposal	3	M. & S. E. 6b—Water Purification and Sewage Disposal	2
M. & S. E. 99—Inspection Trip	0	M. & S. E. 9—Hydraulic Design and Construction	2
Non-technical elective ³	2	M. & S. E. 98—Thesis or approved elective	3
Total	18	Total	17

Curriculum in Railway Civil Engineering as Taught in 1916-17

FIRST YEAR FOR THE CLASS OF 1920

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Chem. 1a ² or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 1—Drill Regulations	1
Mil. 2a—Military Drill	1	Mil. 2b—Military Drill	1
Engineering lecture	0	Engineering lecture	0
Total	17 or 18	Total	19

Summer Reading, 50 points

¹Semester hours. For definition see page 247.²The numbers refer to courses in the Description of Courses, page 247.³Any approved non-technical course. See page 151.

SECOND YEAR FOR THE CLASS OF 1919

C. E. 27—Plane Surveying.....	3	C. E. 28—Higher Surveying.....	3
Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 2c—Military Drill.....	1	T. & A. M. 20—Analytical Mechanics.....	3
		Mil. 2d—Military Drill.....	1
Total.....	18	Total.....	18

Summer Reading, 50 points

THIRD YEAR FOR THE CLASS OF 1918

C. E. 51—Railroad Surveying.....	5	C. E. 60—Structural Stresses.....	4
R. E. 25—Railway Development.....	3	R. E. 31—Railway Yards and Terminals.....	3
T. & A. M. 21—Analytical Mechanics.....	2	R. E. 34—Railway Maintenance.....	4
T. & A. M. 29—Resistance of Materials.....	5	T. & A. M. 10—Hydraulics.....	3
Non-technical elective ¹	3	Non-technical elective.....	3
Total.....	18	Total.....	17

FOURTH YEAR FOR THE CLASS OF 1917

C. E. 77—Masonry Construction.....	4	C. E. 80—Engineering Construction and Spec-	
C. E. 79—Cement Laboratory.....	1	ifications.....	2
C. E. 81—Reinforced Concrete Theory.....	2	E. E. 4—Elementary Electrical Engineering.....	2
C. E. 83—Bridge Design.....	3	E. E. 64—Electrical Engineering Laboratory.....	1
M. E. 11—Steam Engines and Boilers.....	3	R. E. 30—Thesis.....	3
R. E. 32—Railway Construction.....	3	R. E. 33—Railway Location.....	4
R. E. 35—Railway Signaling.....	1	R. E. 51—Seminar.....	1
R. E. 50—Seminar.....	1	Non-technical elective ¹	3
R. E. 99—Inspection Trip.....	0		
Total.....	18	Total.....	16

Curriculum in Railway Electrical Engineering as Taught in 1916-17

FIRST YEAR FOR THE CLASS OF 1920

FIRST SEMESTER	Hours ²	SECOND SEMESTER	Hours ²
Chem. 1a ³ or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Plane Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Tr. 2—Gymnasium.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.....	1	Mil. 1—Drill Regulations.....	1
Mil. 2a—Military Drill.....	1	Mil. 2b—Military Drill.....	1
Engineering lecture.....	0	Engineering lecture.....	0
Total.....	17 or 18	Total.....	19

Summer Reading, 50 points

SECOND YEAR FOR THE CLASS OF 1919

Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
M. E. 75—Forge Work.....	1	M. E. 79—Pattern Work.....	3
M. E. 77—Foundry Work.....	2	Phys. 1b—Physics Lectures.....	2
Phys. 1a—Physics Lectures.....	3	Phys. 3b—Physics Laboratory.....	2
Phys. 4a—Electrical and Magnetic Measure-		T. & A. M. 20—Analytical Mechanics.....	3
ments.....	2	Mil. 2d—Military Drill.....	1
Phys. 2a—Physics Laboratory.....	2		
Mil. 2c—Military Drill.....	1	Total.....	18
Total.....	18	Total.....	18

Summer Reading, 50 points

THIRD YEAR FOR THE CLASS OF 1918

E. E. 25—Direct Current Apparatus.....	4	E. E. 26—Alternating Current.....	4
E. E. 75—Electrical Engineering Labora-		E. E. 76—Electrical Engineering Labora-	
tory.....	2	tory.....	2
M. E. 81—Machine Work.....	3	M. E. 2—Steam Engineering.....	3
Phys. 4a—Electrical and Magnetic Measure-		Phys. 4b—Electrical and Magnetic Measure-	
ments.....	2	ments.....	2
R. E. 25—Railway Development.....	3	R. E. 60—Electric Railway Principles.....	2
T. & A. M. 25—Resistance of Materials.....	4	T. & A. M. 36—Analytical Mechanics.....	2
		Non-technical elective ¹	3
Total.....	18	Total.....	18

¹Any approved non-technical course. See page 151.²Semester hours. For definition see page 247.³The numbers refer to courses in the Description of Courses, page 247.

FOURTH YEAR FOR THE CLASS OF 1917

M. E. 11—Thermodynamics.....	3	E. E. 56—Electrical Design.....	4
M. E. 61—Power Measurement.....	2	R. E. 63—Electric Railway Laboratory.....	2
R. E. 62—Electric Railway Laboratory.....	2	R. E. 65—Electric Railway Economics.....	4
R. E. 64—Electric Railway Practise.....	3	R. E. 98—Thesis ¹ or elective.....	3
R. E. 66—Electric Railway Machinery.....	3	Non-technical elective ²	3
R. E. 67—Seminar.....	1		
R. E. 99—Inspection Trip.....	0		
Non-technical elective ²	3		
Total.....	17	Total.....	16

Curriculum in Railway Mechanical Engineering as Taught in 1916-17

FIRST YEAR FOR THE CLASS OF 1920

FIRST SEMESTER		SECOND SEMESTER	
	Hours ³		Hours ³
Chem. 1b ¹ or 1a—Inorganic Chemistry.....	3 or 4	Chem. 4—Advanced Chemistry.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—Advanced Algebra.....	3	Math. 6—Analytic Geometry.....	4
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	2	Phys. Tr. 2—Gymnasium.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.....	1	Mil. 1—Drill Regulations.....	1
Mil. 2a—Military Drill.....	1	Mil. 2b—Military Drill.....	1
Engineering lecture.....	0	Engineering lecture.....	0
Total.....	17 or 18	Total.....	19
Summer Reading, 50 points			

SECOND YEAR FOR THE CLASS OF 1919

Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
M. E. 79—Pattern Work.....	3	M. E. 75—Forge Work.....	1
Phys. 1a—Physics Lectures.....	3	M. E. 77—Foundry Work.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 1b—Physics Lectures.....	2
Mil. 2c—Military Drill.....	1	Phys. 3b—Physics Laboratory.....	2
		T. & A. M. 20—Analytical Mechanics.....	3
		Mil. 2d—Military Drill.....	1
Total.....	18	Total.....	18
Summer Reading, 50 points			

THIRD YEAR FOR THE CLASS OF 1918

Math. 9a—Integral Calculus.....	2	M. E. 12—Thermodynamics.....	5
R. E. 25—Railway Development.....	3	M. E. 64—Power Measurement.....	3
T. & A. M. 25—Resistance of Materials.....	4	R. E. 6—Locomotives.....	4
T. & A. M. 27—Analytical Mechanics.....	3	M. E. 82—Machine Work.....	4
Non-technical elective ²	3	Non-technical elective ²	3
Total.....	15	Total.....	19

FOURTH YEAR FOR THE CLASS OF 1917

E. E. 11—Direct Current Apparatus.....	3	E. E. 12—Alternating Current Apparatus.....	3
E. E. 61—Direct Current Laboratory.....	1	E. E. 62—Alternating Current Laboratory.....	1
M. E. 37—Principles of Management.....	3	R. E. 7—Advanced Design.....	3
R. E. 2—Locomotive Design.....	3	R. E. 8—Railway Laboratory.....	2
R. E. 5—Railway Laboratory.....	3	R. E. 61—Electric Traction.....	3
R. E. 9—Seminar.....	1	R. E. 98—Thesis ¹ or elective.....	3
R. E. 99—Inspection Trip.....	0	Non-technical elective ²	2
Non-technical elective ²	3		
Total.....	17	Total.....	17

¹Only students having high grades may elect a thesis.²Any approved non-technical course. See page 151.³Semester hours. For definition see page 247.⁴The numbers refer to courses in the Description of Courses, page 247.

THE COLLEGE OF AGRICULTURE

For the *buildings* used by this College, see page 54; for a list of its *curriculums*, page 64; for *clubs auxiliary to its curriculums*, page 102; for *honors*, page 87; for *honorary societies*, page 101; for *fees and expenses*, page 110.

GENERAL STATEMENT

This College offers curriculums to both men and women. The curriculums offered are designed for four distinct purposes:

First, and mainly, to train for the profession of farming.

Second, to train for the teaching of agriculture in the public schools.

Third, to train for the profession of landscape gardening.

Fourth, to train for the profession of floriculture.

The curriculums offered by the department of household science have two purposes in view:

First, and mainly, to train young women in the science and art of household affairs.

Second, to prepare teachers for giving instruction in domestic science in high schools, and, in connection with the College of Liberal Arts and Sciences, to fit for college and university positions.

In the case of both men and women the great purpose is to prepare for the practical affairs of life. In order that technical knowledge and skill may be developed along with, and not at the expense of, those things which tend to the production of cultured and versatile men and women, the technical work is closely associated with the related sciences, and students are required to divide their time fairly with those subjects that develop general knowledge and breadth of view.

The College offers over ninety courses of instruction in technical subjects, besides opportunity to elect from the scientific and literary offerings of the other colleges of the University.

The elective system prevails, and with a few exceptions the student is left free to select those subjects which meet his needs, always under the advice and guidance of the faculty.

Credit is given for all work accomplished; this credit counts toward graduation if the student desires a degree.

ADMISSION

For the requirements for admission to the College of Agriculture, see the general statement of the entrance requirements of the University, pages 66-84.

ADMISSION TO GRADUATE WORK IN AGRICULTURE

While in general it will be expected that applicants for admission to the Graduate School shall have had an undergraduate course in scientific and technical agriculture equivalent to that of the University of Illinois, yet students who are otherwise eligible for admission to the Graduate School may be admitted to graduate standing in agriculture if they have had a thorough training in the fundamental sciences, even tho their undergraduate curriculum may have lacked to some extent the amount and kind of technical work included in our course.

SCHOLARSHIPS IN AGRICULTURE AND HOUSEHOLD SCIENCE

For detailed information concerning scholarships in agriculture and household science, see page 105.

FACILITIES FOR INSTRUCTION AND METHODS OF WORK

The affiliation of the College with the Agricultural Experiment Station enables the University to support a larger faculty than would otherwise be possible, and permits a higher degree of specialization. For the most part, those who teach in the College conduct experiments in the same subjects in the Station.

The methods of instruction vary with the nature of the courses. In general the laboratory method prevails. Text-books are used whenever good ones are available. Laboratory and text are supplemented by lectures and reference readings.

AGRICULTURAL EXTENSION

Agricultural extension work serves as the intermediary between the College of Agriculture and the Agricultural Experiment Station and the local community and the farm. Each department does extension work, and so far as possible provides special men for such work. The responsibility for the work of these men lies with their own department. For this reason not all of the extension effort issues from one office.

For administrative purposes and for the coordination of these activities through a regular channel, agricultural extension is administered as a separate department, conducting all extension enterprises which do not deal with technical subjects and cooperating with other departments in diffusing the results of their work in the State.

Some of the general extension enterprises are: agricultural extension schools and demonstrations in different localities; the two weeks course given annually at the College in January; helping at farmers' institutes and similar gatherings, with special railway lecture trains, at the boys' state fair school, and in educational exhibits at fairs and elsewhere; welfare work in rural communities; and excursions to the College. (See also under University Extension, Part IV.)

Courses of study are offered to assist in determining what phases of agriculture are suitable for secondary school purposes and how they should be taught, and for the discussion of methods of organizing extension activities.

AGRONOMY

The department of agronomy gives instruction in those subjects which relate to the field, as drainage, farm machinery, field crops; the chemistry, physics, and bacteriology of the soil; manures and rotation in their relation to fertility; plant breeding. The department possesses equipment and facilities for instruction in these subjects, and, in addition, affords opportunities for contact with the research work of the Agricultural Experiment Station, especially in crop production, soil fertility, soil biology, and plant breeding, in the analytical and pot-culture laboratories on the soil bins and on the experiment fields at the University and in other parts of the State.

Attention is called to the fact that, if circumstances prohibit a regular four-year curriculum, it is possible for a student who has had sufficient preparatory training to arrange his studies so as to obtain the necessary prerequisites and complete the general courses in soil physics and soil fertility in two years. (See Agronomy 9 and 12.)

ANIMAL HUSBANDRY

The department of animal husbandry offers courses covering the study of sheep, swine, poultry, and beef cattle and their products; heavy and light horses with their care and training; the management of herds, flocks and studs; the principles and practise of feeding, breeding, and marketing; and the chemical and physiological phases of animal nutrition.

The University herds, flocks, and studs contain about six hundred pure bred cattle, swine, sheep, and horses, and several hundred fowls, ducks, and turkeys, which are available for class purposes. These animals are also used for investigations in feeding and breeding, and for illustration of breed types and characteristics. The breeds represented are Shorthorn, Hereford, and Aberdeen Angus cattle; Poland-China, Berkshire, Duroc Jersey, Chester White, Tamworth, Large Yorkshire, and Hampshire swine; Shropshire, Oxford, Southdown, Hampshire, Rambouillet, and Dorset sheep; and Percheron, Standard-bred, Shire, Belgian, and American Saddle horses. In addition to this pure-bred live stock, a large number of grade animals of the various classes of live stock furnish material for judging practise. In this practise, standard market classes and grades of live stock are illustrated, and instruction is given in the selection of animals according to feed-lot and market requirements. The new stock pavilion offers opportunity for show and judging work. (For detailed description, see page 55). The lectures of the various courses are supplemented by 1,000 or more lantern slides, charts, diagrams, models, and photographs. Pedigree and breed work is facilitated by 75 sets of the different herd, stud, and flock registers, and complete files of the leading American and British journals.

The equipment for instruction and investigation in the feeding, breeding, and management of live stock consists of modern buildings for the housing of beef cattle, swine, sheep, horses, and poultry, with the appliances necessary for individual and collective feeding tests; brick-paved feed lots and open sheds, in which steers may be fed in carload lots; a feed storage barn, with various forms of grinding mills and other machinery for the preparation of feed; and various kinds of harness, vehicles, and other appliances for the training of horses. The department also maintains a cold-storage room and other equipment for demonstrations in the cutting and handling of meats; a collection of wool samples, and microscopes for the study of wool. The chemistry and physiology laboratories of the department afford facilities for advanced work in animal nutrition.

DAIRY HUSBANDRY

The department of dairy husbandry furnishes instruction in the production and care of milk and in the manufacture of dairy products.

The various courses cover the application of science to dairy problems, approved methods in dairy operations, and the economic significance of these operations.

In addition to laboratories and lecture rooms, its equipment includes a farm of 160 acres with buildings; about 100 milch cows, bulls, and young stock, including typical representatives of the Ayrshire, Guernsey, Jersey, and Holstein-Friesian breeds; a manufactory with modern equipment for handling city milk and making butter, cheese, ice cream, and bulk condensed milk; and facilities for the distribution of milk on the University milk route.

HORTICULTURE

The department of horticulture offers fifty-six courses, in the five divisions of horticulture (pomology, olericulture, floriculture, landscape gardening, and forestry),

and also in subjects dealing with all the divisions, such as plant propagation, spraying, the evolution of horticultural plants, and experimental horticulture.

For instruction in pomology, use is made of the various fruit plantations maintained by the department. The orchards of different ages afford opportunities for practise in pruning and studies of tree types, while the products furnish materials for practise in the grading and packing of fruits and the study of systematic pomology. A collection of fruit packages illustrates the types used in commercial packing. There is also a collection of wax models of fruits representing the principal varieties grown in Illinois.

For olericulture, or vegetable gardening, certain areas of ground are reserved on which garden operations are illustrated and various crops are grown. The equipment also includes a greenhouse 105x28 feet, hotbed frames and sash, and an assortment of seed drills and wheel hoes, hand tools, markers, planters, and other appliances for the growing and handling of vegetables.

The equipment in floriculture includes ten glass houses covering an area of 28,000 square feet, and a service building. Six of the houses, including the palm house with an area of 3,200 square feet, are used for instructional work exclusively, and the other four, while intended primarily for experimental purposes, add to the facilities for instruction in floriculture as conducted on a commercial basis. Besides roses, carnations, and chrysanthemums, the houses contain a selection of plants representing all the forms used in commercial and decorative or conservatory work. The service building contains laboratories, class rooms, offices, and potting, storage, and work rooms. An assortment of florists' supplies is maintained. Floricultural periodicals, reference books, and a series of over five hundred slides add to the equipment. The ornamental gardens maintained by the department furnish illustrative materials for students in floriculture and landscape gardening.

The equipment in landscape gardening includes four drafting rooms with desks for individuals, modern filing devices for office practise, seminar rooms, lecture rooms, offices, and a library. The library contains a complete collection of books, periodicals, pamphlets, photographs of examples of foreign and American landscape gardening, and works on civic design, all carefully indexed. There is also a collection of representative drawings and blue-prints from the offices of practising landscape architects.

The collection of trees and shrubs growing on the campus and about certain residences near the University furnishes material for plant studies in the courses in planting design. The herbarium of the division is also available for reference. A series of 1,500 lantern slides is used in lectures.

Instruction in forestry is facilitated by a collection of native woods and a forest tree plantation of about twenty acres, containing Scotch pine, white pine, Norway spruce, European larch, green ash, black walnut, hickory, bur oak, white elm, and other species.

HOUSEHOLD SCIENCE

The courses given in this department are planned to meet the needs of two classes of students, viz: (a) those specializing in other lines of work, but desiring a knowledge of the general principles and facts of household science; (b) those who wish to specialize in household science.

The department is housed in the north wing of the Woman's Building. The kitchen for extension work, with dining room adjoining, is in the basement. The first floor contains two class rooms, a seminar room, an exhibition room for illustrative material for work in house construction and textile fabrics, offices, and cloak rooms. On the second floor are individual, diet, institutional, and class kitchens,

small and large dining rooms, chemical laboratory, two large sewing rooms, offices, and store rooms. On this floor provision is made for the study of the preparation and service of food in large quantities in the institutional kitchen and large dining room adjoining. The equipment on this floor provides practise for those interested in the problems of lunchroom management and for dietitians. The third floor contains additional sewing rooms, offices, equipment for teaching home care of the sick, and an apartment in which the problems of house construction and furnishing and household administration are studied.

REQUIREMENTS FOR GRADUATION

Students who have satisfied all matriculation requirements and have maintained throughout their course a satisfactory record of scholarship and moral character will be graduated with the degree of Bachelor of Science, upon having completed the studies of the prescribed list and sufficient electives to make a total of 130 semester hours.

A thesis is not required for graduation, but any student who has completed not less than 90 hours before the senior year may then elect a thesis course in any department in which he has done not less than 20 hours' work, subject to the approval of the head of the department in question.

Graduates of approved colleges may expect to secure a degree in agriculture from the University of Illinois upon completion of the technical and scientific requirements. This will ordinarily require two years of residence work; a minimum of one year will be exacted.

GENERAL CURRICULUM IN AGRICULTURE

All students except those in the special curriculums in household science, floriculture, and landscape gardening are required to take the same work during the freshman year and part of the sophomore year. This work gives the student a correct conception of the fundamental farm practises and an insight into the technical branches of agriculture, such as animal and dairy husbandry, horticulture, farm crops, soils, farm mechanics, and buildings, and leaves the junior and senior years open for elective studies.

One hundred thirty hours are required for graduation, as follows:

Agriculture prescribed first two years.....	19 hours
Agriculture prescribed as electives.....	40 hours
Total agriculture required.....	59 hours
Non-agriculture prescribed.....	42 hours
Non-agriculture prescribed as electives.....	15 hours
Total non-agriculture required.....	57 hours
Open electives.....	14 hours
	<hr/>
	130 hours

Prescribed Subjects

Required for the Degree of Bachelor of Science in the General Curriculum in Agriculture

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours ¹		Hours ¹		Hours ¹
Ag. Ext. 4—Country Life Problems.....	1	A. H. 5—Live Stock Judging.....	3	Chem. 2a—Inorganic Chemistry and Qualitative Analysis.....	5
Agron. 25—Farm Crops.....	4	D. H. 3—Elements of Dairy Husbandry.....	1	Hort. 1b—Elements of Horticulture.....	2
Chem. 1 or 1a—Inorganic Chemistry.....	5 or 3	Hort. 1b—Elements of Horticulture.....	2	Rhet. 2—Rhetoric and Themes.....	3
Hort. 1a—Elements of Horticulture.....	2	Phys. Tr. 1 and 1a—Gymnasium and Hygiene..	1	Phys. Tr. 2—Gymnasium.....	1
Rhet. 1 ² —Rhetoric and Themes.....	3	Mil. 2a—Military Drill.....	1	Mil. 1—Drill Regulations.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene..	1	Electives.....	0-3	Mil. 2—Military Drill.....	1
Mil. 2a—Military Drill.....	1			Electives.....	1
Electives.....	—				—
Total.....	18 or 15	Total.....	18		
SECOND YEAR					
A. H. 8 and 21—Principles of Breeding and Feeding.....	3	A. H. 8 and 21—Principles of Breeding and Feeding.....	3	Botany 1—General Botany.....	5
and		and		or	
Botany 1—General Botany.....	5	Botany 1—General Botany.....	5	Agronomy 26—Elementary Farm Mechanics..	3
or		or		and	
Agronomy 26—Elementary Farm Mechanics..	3	Agronomy 26—Elementary Farm Mechanics..	3	Chemistry 13a—Elementary Quantitative Analysis.....	5
and		and		Mil. 2c—Military Drill.....	1
Chemistry 13a—Elementary Quantitative Analysis.....	5	Chemistry 13a—Elementary Quantitative Analysis.....	5	Electives.....	6-9
Mil. 2c—Military Drill.....	1	Military 2d—Military Drill.....	1		
Electives.....	6-9	Elective.....	6-9		
Total.....	15-18	Total.....	15-18		

In addition to the above, students will take the following:

Agriculture, electives.....	40 hours
Non-agriculture, electives.....	15 hours
English 20.....	4 hours
Science, elective.....	5 hours
Open electives.....	14 hours

CURRICULUM IN FARM ORGANIZATION AND MANAGEMENT

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
Prescribed Subjects	Hours ¹		Hours ¹	Prescribed Subjects	Hours ¹
Agron. 25—Farm Crops.....	4	A. H. 5—Live Stock Judging.....	3	Chem. 2a—Inorganic Chemistry and Qualitative Analysis.....	5
Ag. Ext. 4—Country Life Problems.....	1	D. H. 3—Elements of Dairy Husbandry.....	1	Hort. 1b—Elements of Horticulture.....	2
Chem. 1 or 1a—Inorganic Chemistry.....	5 or 3	Hort. 1b—Elements of Horticulture.....	2	Rhet. 2—Rhetoric and Themes.....	3
Hort. 1a—Elements of Horticulture.....	2	Phys. Tr. 1 and 1a—Gymnasium and Hygiene..	1	Phys. Tr. 2—Gymnasium.....	1
Rhet. 1 ² —Rhetoric and Themes.....	3	Mil. 2a—Military Drill.....	1	Mil. 1—Drill Regulations.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene..	1			Mil. 2b—Military Drill.....	1
Mil. 2a—Military Drill.....	1				—
Total.....	17-15	Total.....	17		
SECOND YEAR					
Prescribed Subjects		Prescribed Subjects			
A. H. 8 and 21—Principles of Breeding and Feeding.....	3	Agron. 26—Elementary Farm Mechanics.....	3		
Mil. 2c—Military Drill.....	1	Mil. 2d—Military Drill.....	1		

In addition to the above courses the following are also prescribed:

Accountancy 11.....	3 hours
Economics 2 or 1.....	3 or 5 hours
Economics 16c.....	3 hours
Economics 22.....	3 hours
Economics 26.....	3 hours
Business Law 2.....	3 hours
Elective economics, minimum of.....	6 hours

¹Semester hours. For definition see page 247.

²Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2 may be excused from Rhetoric 1. See page 72.

Farm Management 1.....	3 hours
English 20.....	4 hours
Philosophy 1.....	3 hours
Elective science, minimum of.....	15 hours
Elective agriculture, minimum of.....	28 hours
Open electives.....	11 or 9 hours
Total prescribed.....	130 hours

To avoid conflicts with other prescribed work it is suggested that the courses in economics, accountancy, and farm management be taken in the following order:

SECOND YEAR

Economics 26.....	3	Economics 2.....	3
		Economics 22.....	3

THIRD YEAR

Accountancy 11.....	3	Economics 14.....	2
		Economics 16c.....	3
		Farm Management 1.....	3

FOURTH YEAR

Economics 15.....	2	Business Law 2.....	3
		Economics 17.....	2

CURRICULUM IN FLORICULTURE

The object of this curriculum is to fit men and women for the profession of floriculture. The laboratory exercises in the technical subjects consist of practical work in the greenhouses and gardens and give the students a working knowledge of the best methods now in use.

FIRST YEAR

FIRST SEMESTER

Prescribed Subjects

	Hours ¹
Chem. 1 or 1a—Inorganic Chemistry.....	5 or 3
Ent. 4—Economic Entomology.....	3
Hort. 4—Plant Houses.....	4
Rhet. 1 ² —Rhetoric and Themes.....	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene.....	1
Mil. 2a—Military Drill.....	1
Total.....	17 or 15

SECOND SEMESTER

Prescribed Subjects

	Hours ¹
Chem. 2a—Inorganic Chemistry and Qualitative Analysis.....	5
Hort. 5—Plant Propagation.....	5
Rhet. 2—Rhetoric and Themes.....	3
Phys. Tr. 2—Gymnasium.....	1
Mil. 1—Drill Regulations.....	1
Mil. 2b—Military Drill.....	1
Total.....	16

SECOND YEAR

Bot. 1—General Botany.....	5
Eng. 20—Chief English Writers.....	4
Mil. 2c—Military Drill.....	1
Total.....	10

Agron. 9—Soil Physics.....	5
Hort. 15a—Principles of Plant Growing.....	5
Mil. 2d—Military Drill.....	1
Total.....	11

THIRD YEAR

Bot. 7a—Plant Pathology.....	5
Econ. 2—Principles of Economics.....	3
Hort. 15b—Commercial Crops.....	5
Total.....	13

Bot. 27a—Plant Physiology.....	5
Hort. 7—Spraying.....	3
Hort. 24a—Trees and Shrubs.....	3
Total.....	11

FOURTH YEAR

Hort. 31—Garden Flowers.....	3
Hort. 24b—Trees and Shrubs.....	3
Total.....	6

Hort. 30—Decorative Plants.....	5
Hort. 42—Landscape Design.....	3
Hort. 32—Floral Decoration.....	4
Total.....	12

Suggested Electives

Accountancy.....	
Chem. 13a—Elementary Qualitative Analysis.....	5
Economics.....	
Hort. 28—Exotics.....	1

Suggested Electives

Agron. 12—Soil Fertility.....	5
A. H. 30—Genetics.....	5
Bot. 3a—Plant Anatomy.....	5
Bot. 4a—Taxonomy of Cormophytes.....	5
Botany 7b—Methods of Study of Fungi.....	5
Hort. 43—Nutrition of Greenhouse Crops.....	5

¹Semester hours. For definition see page 247.

²Those students who show by examination a proficiency in composition sufficient to qualify them or Rhetoric 2 may be excused from Rhetoric 1. See page 72.

CURRICULUM IN HOUSEHOLD SCIENCE

Of the 130 hours required for graduation, 91 are provided for in the prescribed list and the restricted electives of List A. The other 39 hours of credit necessary for graduation may be taken, subject to the approval of the Dean of the College, from any courses offered in the University. Holders of scholarships in household science in this College take the course as laid out here. Variations from it can be made only by special permission of the Council of Administration on recommendation of the faculty of the College.

PRESCRIBED SUBJECTS

Required for the Degree of Bachelor of Science in Household Science

Art and Design 1, 12, 19, 20.	9 hours
Bacteriology 5.	5 hours
Botany 1 or Zoology 1.	5 hours
Chemistry 1 or 1a, 2a.	8 or 10 hours
Economics 2.	3 hours
English 1, 2.	8 hours
Household Science 1, 2, 3, 5, 6, 7, 12, 13, 19.	23 hours
History 1a-1b or 3a-3b.	6 or 8 hours
Physiology 4a or 4b.	5 hours
Physical Training 7a-7b, 9.	3 hours
Rhetoric 1, 2.	6 hours
English or Rhetoric.	5 hours
List A, a minimum of ¹ .	4 hours

Total required subjects.	.90 to	94 hours
Electives.	.40 to	36 hours

Total.....130 hours

ELECTIVES

List A—English 21, 22, 23, 24
 Horticulture 1a, 1b, 2, 3, 5, 19, 28, 10a
 Household Science 11, 14, 17, 18
 Economics 22, 26
 Sociology 1
 Physics 7a, 8a
 Education 1, 6, 10
 Agronomy 7, 9, 12, 25, 26
 Animal Husbandry 10, 5
 Dairy Husbandry 1, 3, 19, 11, 4
 Agricultural Extension 1, 3, 4

Suggested Curriculum

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours ²		Hours ²
A. & D. 1—Freehand Drawing.	3	Chem. 2a—Inorg. Chem. and Qual. Anal.	5
Chem. 1 or 1a ² —Inorganic Chemistry.	5 or 3	H. Sci. 1 ⁴ —Sel. and Prep. of Food.	3
H. Sci. 2—Home Arch. and Sanitation.	2	H. Sci. 7—Textiles.	2
Rhet. 1—Rhetoric and Themes.	3	Lib. 12—General Reference.	2
P. T. 7—Gymnasium Practise.	1	Rhet. 2—Rhetoric and Themes.	3
P. T. 9—Hygiene.	1	P. T. 7—Gymnasium.	1
Total.	15 or 13	Total.	16

SECOND YEAR

Bot. 1 or Zool. 1.	5	A. & D. 12—Applied Design.	2
Econ. 26—Economic Resources.	3	Econ. 22—Econ. Hist. of U. S.	3
Eng. 1—Survey of Eng. Lit.	5	Eng. 2—Survey of Eng. Lit.	4
H. Sci. 6—Econ. Uses of Food.	3	Physiol. 4—General Physiology.	5
Hort. 19—Amateur Floriculture.	3	Electives.	—
Total.	19	Total.	14

¹If physics has not been offered for entrance, its equivalent should be elected.

²Semester hours. For definition see page 247.

³If Chemistry 1a is taken, a 2-hour elective must be added with the approval of the adviser.

⁴Attention is called to the fact that high school physics is a prerequisite for Household Science 1.

THIRD YEAR

A. & D. 19—History of Fine Arts.....	2	A. & D. 20—History of Fine Arts.....	2
Eng. 23—Intro. to Shakespeare.....	3	Bact. 5—Intro. to Bacteriology.....	5
Hist. 1a or Hist. 3a.....	4 or 3	Econ. 2—Principles of Economics.....	3
H. Sci. 5—Dietetics.....	3	H. Sci. 3—Home Decoration.....	2
H. Sci. 19—Dress Design.....	3	H. Sci. 12—Clothing.....	2
Pub. Sp. 1—Oral Expression.....	2	Hist. 1b or Hist. 3b.....	4 or 3
Electives.....	—		—
Total.....	17 or 16	Total.....	18 or 17

FOURTH YEAR

Educ. 1—Introduction to Education.....	4	Educ. 10—Technics of Teaching.....	3
H. Sci. 13—Hist. of Home Economics.....	2	H. Sci. 10—Home Management.....	2
Sociol. 1—Principles of Sociology.....	3	H. Sci. 11—Teachers' Course.....	3
Electives.....	—	H. Sci. 17—Study of Textiles.....	3
	—	Electives.....	—
Total.....	9	Total.....	11

CURRICULUM IN LANDSCAPE GARDENING

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
<i>Prescribed Subjects</i>		<i>Prescribed Subjects</i>	
Arch. 31—Drawing.....	Hours ¹ 4	Arch. 32—Architectural Drawing.....	Hours ¹ 4
Bot. 1—Introductory Course.....	5	Hort. 5—Plant Propagation.....	5
Hort. 10a—Rural Improvement.....	2	Hort. 10b—Town Improvement.....	2
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Tr. 2—Gymnasium.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene 1	1	Mil. 1—Drill Regulations.....	1
Mil. 2a—Military Drill.....	1	Mil. 2b—Military Drill.....	1
Total.....	18	Total.....	17

SECOND YEAR

<i>Prescribed Subjects</i>		<i>Prescribed Subjects</i>	
Bot. 4d—Taxonomy.....	3	C. E. 32—Surveying.....	3
C. E. 31—Surveying.....	3	Hort. 21b—Landscape Design.....	4
Hort. 21a—Landscape Design.....	4	Hort. 24a—Trees and Shrubs.....	3
Hort. 31—Garden Flowers.....	3	Mil. 2d—Military Drill.....	1
Mil. 2c—Military Drill.....	1		—
Total.....	14	Total.....	11
<i>Electives</i>		<i>Electives</i>	
A. & D. 12—Theory and Practise.....	2	Arch. 14—History of Architecture.....	2
Arch. 13—History of Architecture.....	2	Ent. 4b—Introductory Economic Entomology.....	3
	—	Geol. 12—Geology of Soils.....	5
	—	Hort. 2—Small Fruits.....	2
	—	Zool. 16—Field Ornithology.....	2

THIRD YEAR

<i>Prescribed Subjects</i>		<i>Prescribed Subjects</i>	
Hort. 23a—Landscape Design.....	4	Hort. 23b—Landscape Design.....	4
Hort. 24b—Trees and Shrubs.....	3	Hort. 26a—Planting Design.....	3
Hort. 27a—Landscape Construction.....	3	Hort. 27b—Landscape Construction.....	3
	—	Hort. 36—Landscape Reading.....	2
	—	Hort. 41—Civic Design (Elementary Course).....	1
Total.....	10	Total.....	13
<i>Electives</i>		<i>Electives</i>	
Arch. 15—History of Architecture.....	2	Arch. 16—History of Architecture.....	2
A. & D. 13—History and Practise.....	2	A. & D. 8—Modeling.....	2
Econ. 2—Principles of Economics.....	2	Bot. 20—Plant Diseases.....	3
Hort. 8—Fruit Culture.....	5	Hort. 7—Spraying.....	3
Hort. 29a—Garden Design.....	3	Hort. 9—Forestry.....	2
Pol. Sci. 1—American Government.....	3	Hort. 29b—Garden Design.....	3
Sociol. 1—Principles of Sociology.....	3	Rhet. 17—Advanced Composition.....	3
	—	Sociol. 7—The Rural Community.....	2

¹Semester hours. For definition see page 247.

FOURTH YEAR

<i>Prescribed Subjects</i>		<i>Prescribed Subjects</i>	
C. E. 55—Roads and Pavements.....	2	Hort. 25b—Landscape Design.....	5
Hort. 25a—Landscape Design.....	5	Hort. 28—Exotics.....	1
Hort. 26b—Planting Design.....	3	Hort. 37b—Civic Design.....	3
Hort. 37a—Civic Design.....	3	Hort. 38—Office Practise.....	2
Total.....	13	Total.....	11
<i>Electives</i>		<i>Electives</i>	
A. & D. 4—Water Color.....	2	Hort. 15—Plant Growing.....	5
Hort. 40a—Trees and Shrubs (Advanced Course).....	3	Hort. 40b—Trees and Shrubs (Adv. Course).....	3
Pol. Sci. 4—Municipal Government.....	3		
Sociol. 10—Population.....	3		
<i>General Electives</i>			
Hort. 19—Amateur Floriculture.....	3	Chem. 1 or 1a—Inorganic Chemistry.....	5 or 3
Hort. 39 ¹ —Special Lectures.....	1-8	Modern language.....	8
Zool. 1—General Zoology.....	2	Physics.....	10

CURRICULUM FOR PROSPECTIVE TEACHERS OF AGRICULTURE

A curriculum is offered for prospective teachers of agriculture. Among the subjects recommended are the following:

Agronomy 2, 9, 12, 25, 26; Animal Husbandry 1a, 2a, 4a, 5, 6, 11a, 11b, 30;² Dairy Husbandry 2, 3; Horticulture 1a, 1b, 3, 5, 10a, 19; Agricultural Extension 1, 4-5; Botany 1, 3b; Chemistry 1, 2, 3, 13a; Entomology 4a-4b; Zoology 1; English 20; Rhetoric 1-2, 19; Public Speaking 5-6; Economics 2; Education 1, 6; Library Science 12; Military 1, 2; Physical Training 1, 2, 1a; Foreign language.

For further information concerning this curriculum, address the Dean of the College of Agriculture.

TWO WEEKS' COURSE IN AGRICULTURE

The Corn Growers' and Stockmen's Convention is held annually at the College of Agriculture (not held in 1915 and 1916 on account of the foot and mouth disease). At the time of this meeting, the College gives instruction for two weeks in subjects of special interest to young men on the farm, such as corn and stock judging, milk and seed testing, soils, etc. A morning session of two hours each day is devoted to the discussion of questions of importance to the farmer. In the afternoon an hour is given to lectures upon topics of general interest. The rest of the day is filled with class work in the subjects mentioned above. Each year about a thousand men who are unable to spend a longer time away from home avail themselves of this opportunity to come in touch with the work of the College.

THE SCHOOL FOR HOUSEKEEPERS

A two-weeks' course in household science consisting of lectures and recitation work is given in the rooms of the department of household science in the Woman's Building. (See University Extension, Home Economics, Part IV.)

Admission to Short Courses

No entrance examinations are required and any farmer or farmer's son or daughter may enter these courses. It is important that everyone should be here at the opening of the session. Upon arrival at Champaign or Urbana, application should be made at the University Young Men's Christian Association, where information concerning board and room may be obtained.

¹Students taking the professional course are required to register in Horticulture 39 each semester.
²Students taking the Curriculum for Teachers may take Animal Husbandry 30 for one-half semester and receive 2½ credits therefor.

THE GRADUATE SCHOOL

THE EXECUTIVE FACULTY

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY

DAVID KINLEY, Ph.D., LL.D., *Dean, Professor of Economics*
WILLIAM CHANDLER BAGLEY, Ph.D., *Professor of Education*
ALBERT PRUDEN CARMAN, A.M., D.Sc., *Professor of Physics*
JULIUS GOEBEL, Ph.D., *Professor of Germanic Languages*
GEORGE ALFRED GOODENOUGH, M.E., *Professor of Thermodynamics*
HARRY ALEXIS HARDING, Ph.D., *Professor of Dairy Bacteriology*
HARRIE STUART VEDDER JONES, Ph.D., *Assistant Professor of English*
LAURENCE MARCELLUS LARSON, Ph.D., *Professor of History*
HERBERT WINDSOR MUMFORD, B.S., *Professor of Animal Husbandry*
WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor of the Classics*
ARTHUR NEWELL TALBOT, C.E., *Professor of Municipal and Sanitary Engineering*
EDGAR JEROME TOWNSEND, Ph.D., *Professor of Mathematics*
HENRY BALDWIN WARD, Ph.D., *Professor of Zoology*
EDWARD WIGHT WASHBURN, Ph.D., *Professor of Ceramic Chemistry*
CHARLES MAXWELL MCCONN, A.M., *Registrar, Secretary of the Faculty*

HISTORY AND ORGANIZATION

Altho for many years the University of Illinois had offered advanced students facilities for study and research in various lines, graduate work was undertaken under the name of the Graduate School for the first time in 1892. In 1894 the administration of the school was vested in the Council of Administration, and the Vice-President of the University became Dean of the School. In 1906 the Graduate School was organized as a separate faculty, consisting of a dean and members of the University faculty assigned to this duty by the President.

By act of the Trustees the teaching faculty of the Graduate School includes all members of the University faculty who give instruction in approved graduate courses. The affairs of the School, however, are in charge of the executive faculty appointed each year by the President.

ADMISSION

Admission to the Graduate School may be granted to graduates of institutions whose requirements for the bachelor's degree are substantially equivalent to those of the University of Illinois, and to applicants from other institutions approved by the Executive Faculty, as hereinafter provided. *Admission to the Graduate School does not, however, imply admission to candidacy for an advanced degree, and gives no right or claim to be so admitted. Such candidacy is determined by the Faculty after the student has demonstrated by his work here, for from two to five months, that he has the ability to do major work of graduate character. A mere accumulation of "credits" or "grades" is not sufficient.*

A graduate of an institution meeting the requirements of a standard college, as described below, may be admitted to the Graduate School, provided he satisfies the

Dean and the departments concerned that he will be able to proceed to the master's degree in a period not exceeding two years.

For purposes of admission to the Graduate School a *standard college* is one which meets the following requirements:

a. The college shall require four years' work of collegiate grade for graduation, based upon an entrance requirement of at least fourteen standard high school units.

b. If conditioned students are admitted, they shall not be allowed to proceed beyond the sophomore year without removing their conditions.

c. The college shall maintain at least six departments in liberal arts and sciences, each having at least one professor in each department giving his entire time to the college work of his department.

d. The minimum educational attainment of college professors shall be equivalent to graduation from a college of high grade and graduate work equivalent at least to that required for a master's degree from the University of Illinois.

e. The college shall have a productive endowment sufficient to yield a net annual income of at least \$10,000 available for instructional purposes in the college. If the institution offers courses in addition to the usual liberal arts course, it shall have a correspondingly larger annual income.

f. The college shall have a library and laboratory equipment sufficient to meet fully the needs of the courses announced.

g. In addition to the foregoing specific requirements, so far as possible the general standing of the college shall be considered, including: the character of its curriculum, the efficiency of its instruction, the number of hours of instruction required of the members of its faculty, the size of the classes, the general standards for graduation, its conservatism in granting degrees based upon work done *in absentia*, the success of its graduates in the Graduate School of this University and elsewhere, etc.

Unless otherwise specially permitted, a student enrolled in the Graduate School must take each semester at least one course accepted by the executive faculty for credit in a major or a minor subject.

Admission to particular graduate courses or departments may be granted only to those who have had the requisite undergraduate work in those courses or departments. But a student of mature age who satisfies the Dean and the department concerned of his ability to pursue graduate work in a given line may be enrolled in particular graduate courses, and permitted to carry on such study or investigation under the direction of a department of the University as the department shall recommend and the Dean approve.

Application blanks for admission may be secured from the Dean of the Graduate School or from the Registrar of the University. Every applicant must submit with his application for admission, an official transcript of his college record.

REGISTRATION AND PROGRAM OF STUDY

The following regulations concerning registration and program of studies are laid out primarily for first year students. Second and third year graduate students fill out their programs irrespective of unit value of courses, according to their needs, under the advice of their instructors.

Registration

Each graduate student must register when he first connects himself with the University, and afterwards at the beginning of each semester.

Registration of a new student may be accepted at any time provided the student is prepared to take up courses actually under way. Credit towards the fulfillment of the residence requirement dates, however, from the time of registration and not from the beginning of the semester or year in which the student enters. But registration will not be permitted later in the year than April 1st, except in the case of students who expect to continue through the summer session, or are returning to complete a year's work which has been broken into by illness or other unavoidable interruption.

The first registration, however, or that upon entrance, is permitted only after the student's application for admission to the Graduate School, setting forth his educational attainments, has been duly approved.

A new student must fill out in duplicate an application for admission and submit it to the registrar, from whom he will receive a card of admission and a study blank. He should fill out the study blank after consultation with his adviser, or the person in charge of his major work, and also with the instructors whose courses he wishes to elect. His registration must be completed within two weeks. Otherwise it is subject to a fee of one dollar.

Registration of any student who was enrolled in the preceding semester will not be permitted after two weeks from the opening of class work for the current semester, except by vote of the faculty. Registration after this date is also subject to a fee of one dollar.

Changes in Study Lists

A graduate student is expected to plan his work so carefully that changes in his study list during the semester will not be necessary. When a change seems advisable, however, it may be permitted without fee if made within three weeks of the date of registration. After that date a fee of one dollar is charged for each change, except that the total charge for a rearrangement authorized on any one change slip shall not exceed two dollars.

Advisers

The person in charge of the major work of the student becomes his adviser, and, together with those with whom the student is taking first and second minor courses, forms a committee with general supervision over the student's general course of study. This committee is expected to follow the student's work and see that he is helped to lay out an intelligently planned course, and to give him such advice as may be necessary concerning his scholastic career.

Amount of Work

Each student is required to attend a minimum of four class, lecture, or laboratory exercises per week in the first year of his graduate study; and in no case is he permitted during his course to attend more than twelve per week.

Each first year student doing full work must take at least four unit courses, and may be required to take five. A unit course is one which requires ten hours of time per week through one semester, irrespective of the mode of distribution of that time in class work, laboratory work and private study. Four such courses or their equivalent constitute a full minimum program for one semester, and eight such courses, or their equivalent, of graduate grade, constitute the minimum formal year's work required for a master's degree. Five and ten are the maximum for one semester and the year respectively.

Therefore, registration for full work for the master's degree ordinarily provides for three unit courses, or their equivalent, per semester, in addition to a thesis,

the time devoted to the thesis being ordinarily reckoned as equivalent to that for one unit course, or ten hours of time a week, and may not exceed one-third of a full minimum program. If a student is excused from writing a thesis he must take four unit courses or their equivalent.

Undergraduate Courses Open to Graduate Students

Courses to which sophomores are regularly admitted may not be taken for graduate credit, either major or minor.

Unless otherwise specified by the department concerned, a course for graduates and advanced undergraduates, not open to students below senior grade and counting four or five hours of undergraduate credit, if taken by graduate students, will be treated as a unit course; when counting less than four hours of undergraduate credit, such a course, if taken by graduate students, will be treated as a half-unit course.

Unless otherwise specified by the department, a course the prerequisites of which are such as to make it possible for juniors to be admitted, if taken by a graduate student, is counted as a half-unit course or a quarter-unit course, according to the number of hours of undergraduate credit for which the course is given.

Transfer of Undergraduate Credit

No credit earned during the undergraduate course shall be transferred for graduate credit, unless such credit was earned in time additional to the time normally required for the bachelor's degree, in the second semester of senior year, and then only for minor subjects.

Failures

A graduate student who fails in his major subject cannot acquire his degree in that same year. No condition examinations are given graduate students.

Miscellaneous and Listeners' Courses

Graduate students are permitted under proper circumstances to attend classes as listeners, and to elect miscellaneous subjects, that is, courses which do not count towards an advanced degree. Listeners' cards may be obtained at the Dean's office. Under the authority conferred by the faculty on the Dean no student will be permitted by the Dean to visit more than one class or to take more than one miscellaneous subject, nor is any subject open as a listener's or miscellaneous course unless it has a specific educational bearing on the student's major or minor subjects of study.

A student who elects a miscellaneous course is required to register in it, do the work, and pass the semester examinations. A student who has a listener's card is not permitted to participate in the class work or the examination.

No student may register for full minimum program of work for graduate credit if it is necessary for him to carry at the same time more than one miscellaneous subject and to visit one course.

Students On the Staff

Assistants and others on the University staff who undertake to do graduate work are permitted to take an amount of work determined by the terms of their employment. Such a student, applicant for a master's degree, must ordinarily stay through at least two years. In no case will the doctor's degree be conferred upon an applicant otherwise fit in less than four years if he is on the staff in any capacity.

The enrollment of a member of the staff is subject to the approval of the officer to whom he is responsible as a member of the staff and of the dean of the Graduate School with reference to the amount of work to be taken. Before credit shall be recorded for such graduate student at the end of a semester, the head of the department in which he is employed, or someone authorized by the head, must certify that the time given to graduate work by the student has not impaired the work for which he is paid by the University.

Residence and Work Done Elsewhere

Continuous residence and study are required of all members of the Graduates School, unless they are granted leave of absence by the Dean, upon recommendation of the professor in charge of their work, for the purpose of carrying on elsewhere studies or investigation in the line of work for their degrees.

The term "year's residence" means a full year's work at of least eight units done during two semesters.

Students should note that all the work for the master's degree must be done in residence at the University, excepting in the case of members of the staff who have spent half of their time in study through a year at some other institution, and then do the rest of the work required during a year's residence here. Credit for work done elsewhere is not "transferred." The candidate is examined here on all the work required for the degree.

Withdrawal

If after registration a graduate student wishes to withdraw from any course or to add other work, or if he wishes to withdraw altogether from the University, he should first secure the necessary papers from the Dean's office.

CHARACTER OF GRADUATE WORK

The principal aim of graduate study is the development of the power of independent work and the promotion of the spirit of research. Each candidate for a degree is expected to have a wide knowledge of his subject and of related fields of work; for the graduate student is not expected to get from lecture and laboratory courses all the knowledge and training necessary to meet the requirements for his degree.

Students, especially candidates for the doctor's degree, are warned against restricting themselves to the courses prescribed or suggested by the departments in which they are studying. Each student is expected to do a wide range of private reading and study, and in many cases will find it advisable to take one or more courses of lectures quite outside the field of his chosen subject.

DEGREES

Attendance at Commencement is required of all candidates for degrees.

The Masters' Degrees

The master's degree conferred depends upon the character of the bachelor's degree. The usual practise is that A.M. shall follow A.B., that M.S. shall follow B.S. However, this practise may be departed from in cases where the undergraduate course of study of the candidate was of a kind for which some reputable institutions in this country give A.B., while others give B.S. Such departure from the regular practise is permitted, however, only on an individual petition duly approved.

Amount of Work Required

Candidates for the degree of Master of Arts or Master of Science are required to do at least one year's work in residence and to write a thesis. By one year's work is meant from four to five unit courses each semester, or their equivalent, but the completion of the required number is not of itself sufficient to insure the student's receiving his degree. A failure in any subject, or an absence from examination in any subject may prevent the conferring of his degree; and, as already indicated, failure in any course in the major field precludes the conferring of the degree in that year.

Majors and Minors

A candidate for a master's degree may do all his work in one subject, or he may select a major and one minor, or a major and two minors. A major or minor denotes the field of knowledge of a department, or such part thereof as constitutes a separate and independent division of that field. For a master's degree a major is at least half the work, or a minimum of four units, for one year. A minor may not be less than one unit.

A program of studies for a first year graduate student which is limited exclusively to the investigation of a single problem will not be approved. Less than one unit may not be counted as satisfying the requirements of a minor for a master's degree without the approval of the student's adviser and of the department concerned.

Master's Thesis

Each candidate for a master's degree is also required to present a thesis on some subject approved by the professor in charge of his major work and the faculty of the School. The requirement of a thesis may be waived, however, upon the recommendation of the head of the department in which the student is doing his major work, and the approval of the Dean, provided application to waive the thesis is made at the beginning of the year. *In no case will permission to take the degree without the thesis be given by the Dean if applied for later than the latest date for the approval of thesis subjects, as shown by the calendar.*

No one will be excused from writing a thesis unless one-half of his program of studies consists of courses numbered 100 upwards.

The thesis required from a candidate for a master's degree ordinarily will demand one-fourth of the student's time and may not exceed one third of it. The thesis must be typewritten, on "thesis paper," and the title-page must be printed. The thesis in its final form, together with a certificate of approval by the proper officer, must be left by the professor in charge at the Dean's office at the time set in the calendar. No article prepared for another use, or previously published, will be accepted as a thesis.

Graduate Study in the Summer

1. Attendance upon four summer sessions of nine weeks each, or one semester and two summer sessions of nine weeks each, is considered the equivalent of one year in residence. If in these sessions the required amount of work is properly done a master's degree may be earned in this way. The faculty is unwilling to accept summer session work beyond the master's degree toward the doctor's degree, excepting in the case of a student who works in a summer session preceding or following a regular year's attendance at the University. In no case may the last year's work for the doctorate be done in disconnected summer sessions.

2. No course offered in the summer session may be taken for credit towards a higher degree unless it is specially described in the summer session circular as accepted for that purpose.

3. Graduate students in the summer session are credited with only 8 weeks towards the fulfillment of the time requirement for the master's degree. It is necessary therefore for those who take work through four summer sessions for this degree to complete the residence requirement of four additional weeks. This may be done at any summer session by continuing work after the close of the regular session, under the direction of the instructor with whom the student is working. The student is examined on the work thus done as on all other work, and must report his additional work to the Dean.

4. Graduate courses in medical sciences are offered in the College of Medicine at Chicago in the summer quarter between June and September.

Circulars describing the courses offered and conditions of admission and work may be obtained from the Secretary of the College of Medicine, Congress and Honore Streets, Chicago.

Marine Biological Laboratories

Students in zoology, candidates for the master's degree, part of whose necessary preparation is experience in a marine or fresh-water biological laboratory or station, are permitted to offer in part fulfillment of the requirements for the master's degree, work done in such fresh-water or marine laboratory; provided that the student who wishes to have such work accepted make application before beginning work in such laboratory; that the selection of the laboratory at which he is to work has been approved by the faculty beforehand; that the time to be spent in such work shall not be less than six nor more than nine weeks in any one summer; that the instructors under whom the student is to work have been previously accepted by this faculty; that he submit to an examination here on the work done at such laboratory, and that a certificate of attendance from a proper officer of the laboratory or station be submitted and a full written report of the work done in the shape of notes, or otherwise, be required; and that the student shall be in residence here at the University for one full academic year, during which he shall do the rest of the work necessary for his degree.

The marine biological laboratories which have thus far been approved as institutions at which students of this University may take work for record here are:

Marine Stations: Marine Biological Laboratory, Woods Hole, Massachusetts;
Harpwell Marine Laboratory, Casco Bay, Maine.

Puget Sound Station, Friday Harbor, Washington.

Hopkins Marine Laboratory of Stanford University, Pacific Grove, California.

Scripps Institute for Biological Research, University of California, La Jolla, California.

Carnegie Institution Laboratory, Dry Tortugas, Florida.

Bermuda Biological Station, Bermuda.

Fresh Water: Douglas Lake Station, University of Michigan, Topinadee, Michigan.

Ohio State University Laboratory, Cedar Point, Ohio.

MASTER'S DEGREES IN ENGINEERING

Two classes of second degrees are open to graduates of the College of Engineering, namely, academic and professional.

The academic second degree in engineering is Master of Science, following Bachelor of Science, in Architecture, Architectural Engineering, Civil Engineering,

Electrical Engineering, etc. This degree is conferred in accordance with the regulations described above for *academic work in residence only*.

The *professional* second degrees in Engineering are as follows:

Master of Architecture after B.S. in architecture.

Architectural Engineer after B.S. in architectural engineering.

Civil Engineer after B.S. in civil engineering or B.S. in municipal and sanitary engineering.

Electrical Engineer after B.S. in electrical engineering.

Mechanical Engineer after B.S. in mechanical engineering.

Engineer of Mines, Civil Engineer, Electrical Engineer, or Mechanical Engineer, after B.S. in mining or railway engineering, according to the course.

Professional degrees are conferred upon two classes of candidates: (1) graduates of the College of Engineering of the University of Illinois who have been engaged in acceptable professional work away from the University for a period of not less than three years after receiving the degree of Bachelor of Science; (2) graduates of the University of Illinois, or of institutions of equal standing, who have been engaged in acceptable professional work in residence at the University for a period of not less than three years after receiving the degree of Bachelor of Science.

In "acceptable professional work" may be included contributions to technical literature, activity in professional societies, investigation of engineering problems, and the teaching of engineering subjects.

A candidate must declare his candidacy and file with the Dean of the College of Engineering, as chairman of the committee in charge, a detailed statement covering his professional study and experience, not later than the first Monday in November preceding the Commencement at which he proposes to qualify. Prior to December 31 next succeeding, he must submit for approval an outline of his proposed thesis and he must file his completed thesis not later than April 1. If the statement of professional experience and study and the thesis are accepted, the candidate must present himself at commencement in order to receive the degree.

Candidates for professional engineering degrees who already hold the degree of Master of Science, may qualify for the professional degree after two years of professional work.

A candidate for a professional engineering degree must pay the incidental fee of twenty-four dollars on being notified that his professional study and experience are accepted as qualifying him to enter as a candidate for the degree. No one will be enrolled as a candidate for the degree at the following Commencement who does not pay his fee at this time. When a candidate for a professional engineering degree has once been accepted and paid his fee, he is eligible to receive the degree at any time within five years, without additional fee, on completion of the requirements; provided, however, that unless he completes the requirements within two years his name will be dropped from the list of candidates and in order to receive the degree within the five year period he must register once more.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The requirements for the degree of Doctor of Philosophy are a thorow mastery of a selected field of study, evidence of the power of independent investigation in this field, a broad knowledge of the wider field of study of which this major subject is a part, a general acquaintance with related fields of knowledge and a mastery of all branches of study which are necessary to a full knowledge of the main subject. Each student who is seeking this degree is expected to choose for study and final examination a major subject, or field of study, and a first and second minor. The

major subject is the field in which the student expects to become expert and an authority. The first minor must be a subject closely related to the major and may, under certain conditions and with proper approval, be a subdivision of the major field of study. The second minor should be chosen outside of the major field of study.

When a candidate chooses any subject as his major and a division of that subject as his minor, he is not permitted to choose as a second minor any division of work in that same department, excepting by special vote of the executive faculty of the School.

For the doctor's degree no definite division can be made to hold in all cases. In general the faculty approves an arrangement which, distributing the student's time through the required three years, divides it equally among his three subjects in his first year of graduate study; in the proportion of two to one, as between his major and first minor, in the second year of graduate study (his second minor being finished and dropped at the end of the first year); and gives all his time to his major during his third year.

To put the matter in another way, a course of graduate grade (from among the "hundred" courses) meeting twice or three times a week, corresponding roughly to what is sometimes called a full course, or in our terminology a unit course, running through the year, should ordinarily be sufficient for a second minor; a similar course running through two years should ordinarily be sufficient for a first minor. It is understood that in each case the course or courses taken must be such as to occupy the student's full proportion of time.

The candidate's list of subjects must receive the approval of the head of the department in which he chooses his major work and of the Dean of the Graduate School.

Period of Study

The *minimum* period of study required for securing the degree of Doctor of Philosophy is three years. The degree is conferred, however, not for residence during a certain period, but for scholarly attainments and power of investigation, as proved by thesis and examinations.

At least the first two or the last one of the three years required must be spent at this University.

Credit for work done in other universities in not "transferred." The candidate is examined here on the subjects offered by him for the advanced degree. However, his period of residence at another institution of proper grade may be accepted as fulfillment of the residence requirement of the University of Illinois, so far as it goes.

Preliminary Examination

Towards the end of his second year of study, or, by special permission, at the beginning of his third year, the candidate for the degree must submit to a preliminary examination conducted by the members of the faculty with whom he is doing his principal work, in order to determine whether he will be accepted as a candidate for the degree in the following year. This examination is intended to test the student's knowledge of the fields of his major and minor subjects of study. It is partly oral, and may be wholly so.

Language Examination

The candidate will be required to demonstrate his ability to read French and German, and other language needed for the prosecution of his work.

The examination in French and German is in charge of a committee of three, consisting of the head of the department in which the student is taking his major

work, of a member of the department of modern languages, and a member appointed by the Dean of the Graduate School; this test of proficiency in the use of French and German shall take place at the time of the preliminary examination for admission to candidacy for the doctor's degree.

Final Examination

On or before the last Monday in May of the year in which the candidate expects to come up for his degree, he must submit to a final examination. Besides the written examination set by the departments of the major and minor studies, the candidate must also take an oral examination, given by a committee appointed by the Dean. The oral examination is primarily on the research work of the student, as embodied in his thesis, but it is not confined to this. It extends to the whole field of the study of the candidate. It will not be confined to the courses which the candidate has attended in the University of Illinois only, if he has done part of the work elsewhere; nor even to the field covered by the courses specifically taken in this or other universities; but will be so conducted as to determine whether the candidate has a satisfactory grasp of his major subject as a whole, and a general acquaintance with the fields of knowledge represented by his course of study.

Before the candidate is admitted to the final examination and the defense of his thesis, he may be required to take any other examination, oral or written, that is thought proper by the various departments in which he has studied. If after having passed his preliminary examination, he fails in the third year of his study to meet the expectations of the professors in charge of his work, or in any way fails to maintain the standard of scholarship and power of research expected of him, he may be refused admission to the final examination.

The final examination in the major and minor subjects may not be divided. The examination must be taken all at one time even tho it requires several sessions.

The above examinations are in addition to those in the courses for which the student is registered. These must be taken at the times for which they are set in the examination schedule.

Thesis

The power of independent research must be shown by the production of a thesis on some topic connected with the major subject of study. The candidate is expected to defend his thesis or dissertation before the members of the faculty, or as many of them as may wish to question him about it, in connection with his final examination.

The subject of the thesis should be chosen not later than the end of the second year of study and must be submitted for formal approval by the faculty not later than the first Monday of November of the year when the degree is expected. Unless previously printed with proper authority, a typewritten copy of the complete thesis, *on thesis paper*,¹ must be in the hands of the Dean not later than noon of the Saturday nearest the middle of May, for submission to the examining committee.

The doctor's thesis must be printed and one hundred copies deposited in the Library of the University by the candidate, not later than the first of June preceding the conferring of the degree. If it is not printed by the first of June, the student must deposit seventy-five dollars (\$75) or a bond for that amount satisfactory to the Comptroller of the University and the Dean of the Graduate School. If a bond is accepted, it must be replaced at the end of one year with a cash deposit. At the end of two years, if the thesis has not then been printed by the student, the University will print such part of it as it deems best.

¹No other will be accepted by the Dean.

The cash deposit made by the student who does not print his thesis by the end of the second year after his degree is conferred becomes the property of the University, to be used for the general purpose of printing theses.

The title page of each thesis, whether typewritten or printed, must bear the words, "Submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in—(here put the major subject)—in the Graduate School of the University of Illinois." The title page must also contain the full name of the author, his previous degrees, the full title of the thesis, the year of imprint, and, if a reprint, the title, volume and statement of the pagination of the volume from which it is reprinted. Each thesis must have an appendix giving a short biography of the candidate, including the institutions he has attended, his degrees and honors, the titles of his publications, and such other matters as are pertinent.

A leaflet containing instructions for the preparation of theses may be obtained at the office of the Dean.

Doctor's Degree in Engineering

The degree of Doctor of Philosophy in Engineering is offered in certain lines of academic graduate work of a high scholastic type in engineering science that will attract students who wish to prepare themselves as teachers, investigators and experts.

The general requirements for this degree, as to preliminary education, linguistic attainments, etc., are the same as in other lines.

The following lines of engineering science are open as majors for the present:

Engineering mechanics; hydraulic and sanitary engineering; steam engineering; electrical engineering; heating and ventilation engineering; railway engineering; masonry construction and structural engineering; coal mining engineering.

The first minor may be any of the above or one of the following fundamental sciences or an authorized combination of two of them:

Theoretical mechanics; mathematics; thermodynamics; chemistry; geology; physics (experimental or mathematical); zoology; botany.

The second minor should be in other than engineering subjects.

Graduate Work in Medicine

Graduate courses in certain of the medical sciences are offered at the University College of Medicine in Chicago. These courses are open, under the general regulations of the Graduate School, to holders of bachelor's degrees. Registration, however, is made at the College of Medicine. Courses are offered for the present in anatomy, physiology, physiological chemistry, pharmacology, pathology, and bacteriology.

SCHOLARSHIPS AND FELLOWSHIPS

A number of fellowships and scholarships have been established by the Trustees of the University. To first year graduate students of ability and promise there are open a number of scholarships with a stipend of \$250 each and freedom from tuition, incidental and laboratory fees. To second and third year graduate students, that is, those who have had one or two years of graduate study, there are open fellowships with a stipend varying from \$300 to \$500, with freedom from fees. The larger stipends are given only to students who are expected to take their degrees within the year. Each holder of a fellowship or scholarship must pay the matriculation fee of ten dollars, unless he holds a first degree from the University of Illinois, and also the diploma fee of five dollars on receiving his diploma.

Candidates for these scholarships and fellowships must be graduates of the University of Illinois, or of colleges or universities having equivalent requirements for bachelors' degrees.

Application must be made upon blanks to be obtained from the Dean of the Graduate School. These application forms should be sent to the Dean of the Graduate School as early as possible in February (and not later than the last day of that month), of the academic year preceding that for which the fellowship is desired. No application will be considered if received later than March first, until after April fifteenth, the date when appointees from the first list of applicants must accept or refuse their appointments.

Persons appointed are notified on April first and must send the Secretary of the Board of Trustees notice of their acceptance or refusal by April fifteenth; and must agree that, if accepted, the appointment will not be resigned to take a similar one in any other institution during the year for which it is awarded.

Nominations to fellowships are made upon the grounds of worthiness of character, scholastic attainments, and promise of success in the principal line of study or research to which the candidate proposes to devote himself.

For second year fellowships, adequate preparation in one foreign language, and for third year fellowships, adequate preparation in both foreign languages, is required.

Scholarships and fellowships are good for one year, but may be renewed for a second or a third year in special cases. An appointment as honorary fellow, without stipend, may be made as specified for paid fellowships in the case of any one who has shown distinguished merit in his work.

Research Fellowships in the Engineering Experiment Station

The Engineering Experiment Station is devoted entirely to research. Its purposes are the elevation of engineering education, and the study of problems of special importance to engineers and to manufacturing, railway, mining, and industrial interests.

Fourteen research fellowships have been established in the Engineering Experiment Station. These fellowships are open to graduates of approved technical schools and universities, both American and foreign. There is a stipend of \$500 a year for each fellowship. Applicants to whom these fellowships are awarded are required to agree to hold them for two years, devoting a part of their time to the work of the Engineering Experiment Station. At the expiration of this period, if all requirements have been met, the degree of Master of Science will be conferred.

Application for these fellowships should be made to the Director of the Engineering Experiment Station not later than February first. Candidates must present with their applications full information concerning themselves, including any written or published papers or results of investigation.

Research Fellowship in Gaelic

Through its President, Hon. J. P. McGoorty, the Irish Fellowship Foundation of Chicago has offered the University the sum of one thousand dollars as an honorarium for a Fellow, whose duty it will be to pursue research in Irish language and literature at the University of Illinois. An additional sum of two hundred dollars was given for the traveling expenses of the appointee. To this fellowship the University has appointed the Rev. Andrew O'Kelleher, formerly of the department of Celtic in the University of Liverpool. The Fellow is now at the University and is pursuing his work. His researches will doubtless in time be gathered together and published as a contribution to scholarship in the field of Celtic language and literature.

THE GRADUATE CLUB

The Graduate Club is an unofficial organization of the graduate students and graduate faculty. Its purpose is to furnish an opportunity for those working in different departments to become acquainted with one another and thus counteract the tendency toward narrowness which intense specialization may sometimes induce.

THE ILLINOIS HISTORICAL SURVEY

The Illinois Historical Survey is a department of the Graduate School established in 1910 to conduct research in the history of the State of Illinois. The members of the staff, assisted by graduate students, are engaged in the production of scientific studies in Illinois history, and it is expected that the results of these labors will lay a solid basis for the interpretation of the State's past.

The following persons constitute the staff of the Survey for the year 1916-17: Clarence W. Alvord, Ph.D., Professor of History, Director; Ernest L. Bogart, Ph.D., Professor of Economics; John M. Mathews, Ph.D., Assistant Professor of Political Science; Theodore C. Pease, Ph.D., Associate in History; Arthur C. Cole, Ph.D., Associate in History; Jessie J. Kile, A.M., Research Assistant.

GRADUATE WORK IN THE SUMMER SESSION

The Summer Session places emphasis on graduate courses leading to the master's degree. The departments related to high school teaching and to educational administration have been selected as the centers of this emphasis. An attempt is made to vary the graduate offerings from year to year so that advanced students each year may find acceptable work in their chosen fields.

The normal requirement for the master's degree is full work of graduate grade, satisfactorily completed, through one year of residence. This means a residence of thirty-six weeks at the University. Qualified graduate students may fulfill this residence requirement in four summer sessions of eight weeks each and an additional four weeks' study at the University under the direction of the person in charge of the major work. Thus a student, by working at the University for one week before or after each session under the direction of the professor in charge of his major subject, may earn the master's degree in four summers.

In certain cases it will be possible for the graduate student to complete the last fourth of his residence requirement under a leave of absence. This privilege may be granted in the event that the student is able to take advantage of opportunities for research and investigation that are not afforded in the University community. Superintendents, principals, and class-room teachers frequently find it possible to carry on investigations in connection with their school work. There are, for example, numerous problems of school administration and of teaching for which the public school itself forms the only available "laboratory." Where the investigation of such problems is prosecuted with the cooperation of a department of the University, it may be possible to count the work toward the master's degree.

THE LIBRARY SCHOOL

For a description of the *Library Building*, see page 56; for an account of the *libraries* themselves, see page 58; for the *collection in library economy*, see page 62; for *fees*, see page 110.

GENERAL STATEMENT

The Library School offers a two-year curriculum to students who wish to enter librarianship as a profession, and certain library courses to students in other schools and colleges of the University of Illinois who may wish to elect them as a part of their course of training. The instruction in the first or junior year covers the generally accepted methods and practises in library work; students who complete this year's work are prepared to accept positions in library service. In the second or senior year emphasis is placed on historical and comparative methods of treatment; new subjects are introduced to give the student the necessary outlook and equipment for more responsible positions.

One or two years' training will not take the place of years of experience, but they will make the student more adaptable and his general library service more intelligent. The time spent in actual practise, under supervision, amounts to about three and a half months, counting seven hours to a working day. Altho stress is laid on simplicity and economy, methods are taught to enable students to work in large libraries where bibliographic exactness is required. Emphasis is laid on the extension of the activities of the public library, and on the importance of co-operation between the library and the schools and other educational and social agencies.

A member of the senior class in any other school or college of the University may, with the approval of the Director of the Library School, elect any course for which he is prepared.

The school also offers to freshmen and sophomores a course on the use of the library and the ordinary reference books, which will help in general reading or study.

ENTRANCE REQUIREMENTS

Admission to the Library School is conditioned on the presentation of credentials showing that the applicant holds a bachelor's degree in arts or science from the University of Illinois or has had other equivalent training.

Application blanks for admission may be secured from the Director of the School, and these, filled out, should be filed, together with such documentary material as the candidate may offer, showing qualifications for admission, generally not later than July 1. It is to the candidate's interest to present the application and certificates early, in order that the question of admission may be settled before he comes to Urbana.

RECOMMENDED PRELIMINARY CURRICULUM

Undergraduates who intend, on the completion of their college work, to apply for admission to the Library School, are requested to select their courses so as to conform in general to the following recommended program of studies preparatory to library work.

Recommended Preliminary Curriculum

English literature, 5;¹ rhetoric, 2
 Latin, 4, in addition to four years of high school Latin
 German, 6, in addition to two years of high school German
 French, 4, in addition to two years of high school French
 Languages begun in college instead of in the high school should be continued for a longer period
 Medieval and modern European history, 3; history of England, 3; history of the United States, 3
 Economics, 3; political science, 2; sociology, 3
 Philosophy, 2; general psychology, 2
 Zoology, 3; botany, 2; chemistry or physics, 3

The total of this work is 100 semester hours, leaving the equivalent of one year of a four-year course free for work in other subjects or for more work in the subjects named.

ADVANCED STANDING

College graduates who have had approved library experience or who have attended other library schools may be accorded advanced standing by securing credit for some of the courses required for graduation. After satisfying all entrance requirements and after matriculation, the applicant for advanced standing may secure such credit either by examination or by transfer of credits from an approved institution offering courses in library economy. (See page 72).

SPECIAL STUDENTS

It is the practise of this School to admit as special students only those mature persons, who, tho unable to meet the formal requirements for entrance, are prepared for thoro and advanced work. Such persons must present evidence of possessing the information and ability to pursue profitably, as special students, the chosen subjects, and some substitute for the regular requirement for entrance, such as the completion of part of a college course, approved library or teaching experience, or foreign travel. Preference will be given to those already engaged in library work, especially in Illinois libraries. Students thus admitted are expected to take all of the curriculum prescribed for those who are candidates for the degree of Bachelor of Library Science, or failing that, as much of the prescribed work as they are prepared for.

LIBRARY VISITS AND FIELD WORK

Each year all the students in the School visit the libraries and certain of the book binderies, book stores, and printing establishments of either Chicago and vicinity or St. Louis and vicinity. During this visit, which occupies one week, the students are accompanied by members of the faculty.

The estimated expense of this visit is about \$20 for each trip. Students are required to present a written report of the week's visit upon their return to the University, as the work forms part of Library 22 and Library 26.

In order to assure a varied library experience, each student in the senior year is required to spend one month in an assigned library, usually a public library, working, as far as practicable, under the same conditions as a member of the staff of that library. Written and oral reports of the month of field work are required, as the work forms part of Library 26. The estimated expense for the month of field work is \$40.

CURRICULUM

The curriculum is two years in length. For graduation a student must receive credit for all courses except those marked with an asterisk (*), which are elective.

¹The figures after each subject indicate the minimum number of lecture or recitation hours a week which the student should devote to that subject throughout one college year.

The degree of Bachelor of Library Science is conferred on a student who has completed the required work in the two years' curriculum, and has received credit in courses amounting to 65 hours.

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Lib. Sc. 2a—Reference Work.....	3	Lib. Sc. 2b—Reference Work.....	3
Lib. Sc. 3a—Selection of Books.....	2	Lib. Sc. 3a—Selection of Books.....	2
Lib. Sc. 4a—Practise Work.....	2	Lib. Sc. 4b—Practise Work.....	2
Lib. Sc. 16—Order and Accession.....	2	Lib. Sc. 7—History of Libraries.....	2
Lib. Sc. 17—Classification.....	3	Lib. Sc. 19—Trade Bibliography.....	1
Lib. Sc. 18—Cataloging.....	3	Lib. Sc. 20—Loan Department.....	1
Lib. Sc. 23a—Library Administration.....	1	Lib. Sc. 21—Printing, Binding, Indexing.....	2
		Lib. Sc. 22—Library Extension.....	3
		Lib. Sc. 23a—Library Administration.....	1
Total.....	16	Total.....	17

SENIOR YEAR

Lib. Sc. 6a—Subject Bibliography.....	2	Lib. Sc. 6b—Subject Bibliography.....	2
*Lib. Sc. 8—Advanced Reference Work.....	2	Lib. Sc. 9—Bookmaking.....	2
Lib. Sc. 10a—Practise Work.....	4	Lib. Sc. 10b—Practise Work.....	4
Lib. Sc. 13a—Public Documents.....	2	*Lib. Sc. 13b—Public Documents.....	2
Lib. Sc. 15a—Seminar.....	2	Lib. Sc. 15b—Seminar.....	2
Lib. Sc. 24a—Selection of Books.....	2	Lib. Sc. 24b—Selection of Books.....	2
Lib. Sc. 26a—Library Administration.....	3	Lib. Sc. 29—Comparative Classification.....	2
Lib. Sc. 27—Bibliographical Institutions.....	1	Lib. Sc. 26b—Library Administration.....	3
		*Lib. Sc. 28—Practise Work.....	1 to 4
Total.....	18	Total.....	20 to 23

LIBRARY CLUB

Any member of the Library School faculty or of the staff of the University Library and any student in the Library School may become a member. Six meetings are held each year.

¹Semester hours. For definition, see page 247.

THE SCHOOL OF MUSIC

For *admission* to the School of Music, see the general statement of entrance requirements of the University, pages 66 to 84. For *fees*, see page 110. For the *faculty* of the School of Music and description of the *courses* in Music, see under "Music" in the "Description of Courses," Part III.

GENERAL STATEMENT

The School of Music offers regular courses leading to the degree of Bachelor of Music.

Students who are not working for the degree in music may receive a statement from their instructors on completing not less than one year of college work.

Classes in ear training and sight singing meet twice each week. Music students are required to attend these classes.

Choral or orchestral work is required of all students who are taking courses in piano, voice, violin, or organ.

All students majoring in a practical subject are required to take Music 94 (Recital).

The instructors in the School of Music give recitals and lectures on musical subjects during the year.

The courses in the history of music and musical theory, as well as the work in the University Orchestra and the University Choral Society, may be taken by students in other departments without fee.

REQUIREMENTS FOR GRADUATION

Candidates for the degree of Bachelor of Music must offer credit for 130 semester hours, including the prescribed subjects named below, together with an acceptable thesis on a topic related to music.

All music students are expected to attend the concerts and recitals which are given under the auspices of the School of Music.

Public performance being part of the course of study in a practical subject, all students are required to participate in a program when sufficiently prepared.

Students, who by reason of deficient musical ability, inattention, or other valid reason, fail to make satisfactory progress, may be dropped from the classes.

CURRICULUM IN MUSIC

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours ¹				Hours ¹
Foreign language, French, German, or Italian.....	4	Foreign language, French, German, or Italian.....	4		
Mus. 3—Harmony.....	2	Mus. 4—Harmony.....	2		
Mus. 21a—Ear Training.....		Mus. 21b—Ear Training.....			
Mus. 42a, 52a, or 62a—Piano, Voice, or Violin.....	4	Mus. 42b, 52b, or 62b—Piano, Voice, or Violin.....	4		
Mus. 46a, 56a, or 66a—Minor subject.....	2	Mus. 46b, 56b, or 66b—Minor subject.....	2		
Rhet. 1 ² —Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3		
Phys. Tr. 7a—Gymnasium (women).....	1	Phys. Tr. 7b—Gymnasium (women).....	1		
Phys. Tr. 9—Hygiene (women).....	1	Phys. Tr. 2—Gymnasium (men).....	1		
Phys. Tr. 1 and 1a—Gymnasium and Hygiene (men).....	1	Mil. 1—Drill Regulations (men).....	1		
Mil. 2a—Military Drill (men).....	1	Mil. 2b—Military Drill (men).....	1		
Total, Men.....	17	Total, Men.....	18		
Total, Women.....	17	Total, Women.....	17		

¹Semester hours. For definition, see page 247.

²Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2 may be excused from Rhetoric 1. See page 72.

SECOND YEAR

Foreign language, French, German, or Italian.....	4
Mus. 1—History of Music.....	2
Mus. 5—Advanced Harmony.....	3
Mus. 22a—Ear Training.....	1
Mus. 23a—Sight Singing.....	1
Mus. 43a, 53a, 63a, or 84—Piano, Voice, Violin, or Organ (Major Subject).....	4
Mus. 46c, 56c, 66c, or 83c—Minor subject.....	2
Mil. 2c—Military Drill (men).....	1
Total, Men.....	17
Total, Women.....	16

Foreign language, French, German, or Italian.....	4
Mus. 2—History of Music.....	2
Mus. 6—Advanced Harmony.....	3
Mus. 22b—Ear Training.....	1
Mus. 23b—Sight Singing.....	1
Mus. 43b, 53b, 63b, or 85—Piano, Voice, Violin or Organ (Major Subject).....	4
Mus. 46d, 56d, or 66d—Minor Subject.....	2
Mil. 2d—Military Drill.....	1
Total, Men.....	17
Total, Women.....	16

THIRD YEAR

Educ. 1—Introduction to Education.....	4
Eng. 1—Survey of English Literature.....	4
Mus. 7—Counterpoint, Canon, and Fugue.....	3
Mus. 24a—Sight Singing.....	1
Mus. 44a, 54a, 64a, or 86—Piano, Voice, Violin, or Organ (Major Subject).....	4
Mus. 46e, 56e, or 66e—Minor Subject.....	2
Total.....	18

Eng. 2—Survey of English Literature.....	4
Mus. 8—Counterpoint, Canon, and Fugue.....	3
Mus. 24b—Sight Singing.....	1
Mus. 45b, 55b, or 65b—Piano, Voice, or Violin.....	4
Mus. 46f, 56f, or 66f—Minor subject.....	2
Total.....	17

FOURTH YEAR

Eng. 35—The English Drama.....	3
Mus. 9—General Theory.....	2
Mus. 11—Acoustics.....	1
Mus. 27a—Ensemble.....	1
Mus. 45a, 55a, or 65a, Piano, Voice, or Violin.....	4
Mus. 46g, 56g, or 66g—Minor subject.....	2
Mus. 94a—Recital.....	1
Total.....	14

Mus. 10—General Theory.....	2
Mus. 12—Acoustics.....	1
Mus. 27b—Ensemble.....	1
Mus. 45b, 55b, or 65b—Piano, Voice, or Violin.....	4
Mus. 46h, 56h, or 66h—Minor subject.....	2
Mus. 94b—Recital.....	1
Total.....	11

In addition, to make up the prescribed total of 130 hours: Elective, for men, 1 hour; for women, 4 hours. This extra credit may be taken at any time; the election must be approved by the student's adviser.

Practical courses include regular attendance in orchestra and choral society, unless a student is excused by the Director of the School of Music.

CURRICULUM IN PUBLIC SCHOOL MUSIC

The aim of the curriculum in Public School Music is to prepare competent teachers and supervisors of music for the public schools. Students completing the curriculum are granted teacher's certificates. An opportunity for practise teaching is offered. The curriculum comprises the following prescribed subjects:

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Mus. 1—History of Music.....	2	Mus. 2—History of Music.....	2
Mus. 3—Harmony.....	2	Mus. 4—Harmony.....	2
Mus. 21a—Ear Training.....	1	Mus. 21b—Ear Training.....	1
Mus. 23a—Sight Singing.....	1	Mus. 23b—Sight Singing.....	1
Mus. 25—Methods of Teaching.....	4	Mus. 25b—Methods of Teaching.....	4
Practical music, major, piano or voice.....	6	Practical music, major, piano or voice.....	6
Practical music.....	2	Practical music, minor, voice or piano.....	2
Total.....	18	Total.....	18

SECOND YEAR

Edu. 1—Principles of Education.....	4	Edu. 10—Technics of Teaching.....	3
Eng. 1—Survey of English Literature.....	4	Eng. 2—Survey of English Literature.....	4
Mus. 24a—Sight Singing.....	2	Mus. 24b—Sight Singing.....	2
Practical music, major, piano or voice.....	6	Practical Music, major, piano or voice.....	6
Practical music, minor, voice or piano.....	2	Practical Music, minor, voice or piano.....	2
Total.....	18	Total.....	17

¹Semester hours. For definition, see page 247.

Advanced students may satisfy a part of the foregoing requirements by examination; in no case, however, is a student permitted to take less than 30 hours of work.

MUSICAL ORGANIZATIONS

The University Choral and Orchestral Society is conducted by the Director of the School of Music, with the assistance of the instructor of violin, and gives a series of concerts throughout the year. The orchestra meets for two hours' rehearsal once a week; it is open to all students who qualify for membership. The chorus meets once a week for rehearsal of choral works. Singers not connected with the University are admitted by examination.

The Military Band is conducted by the instructor in band instruments. Besides giving several concerts during the year, it furnishes music for regimental formations and ceremonies and other occasions as required by the President of the University. Membership is decided by competitive examinations. A second band is also conducted, in order that all students who play band instruments ordinarily well may have an opportunity to play in a band. Each full term of service in the band counts for one term of the required work in military science. After obtaining credit for four semesters' work those who are continued in the band for not less than one year are paid an amount equal to the incidental fees for the year. There is also a reserve band and trumpet and drum corps.

The University Choristers, the University Glee and Mandolin Clubs (men), and the University Women's Glee Club are also under the supervision of the School of Music.

THE SCHOOL OF EDUCATION

GENERAL STATEMENT

The School of Education was established in 1905 as an organization of the various activities of the University which are concerned with the professional preparation of teachers and supervisors for the public schools. The nucleus of the School is the department of education in the College of Liberal Arts and Sciences. The faculty of the School is made up of the members of this department and of other departments who offer courses intended for the preparation of high-school teachers. The Board of Trustees has approved plans, and work has been begun, on a building to be used as a laboratory for the School of Education and to include quarters for a training school of secondary grade.

THE DEPARTMENT OF EDUCATION

The department of Education includes four full professors, a principal of the training school, and several assistants. It offers courses in educational history, theory, and practise—see under Education in the General Description of Courses, Part III. Two of the courses (Education 1 and 10) are required of all students who wish to secure the official recommendation of the University for teaching positions in secondary schools—see "Committee on Appointment of Teachers," page 192. Credits earned in these courses are usually accepted by the State Examining Board in lieu of examinations in pedagogy for county teachers' certificates; and these and other courses serve to prepare candidates for the examinations in professional subjects required for the State supervisory and high-school certificates—see "Certification of High School Teachers in Illinois," page 192.

GRADUATE WORK IN EDUCATION

Graduate work in education is offered to qualified students in the following fields: general educational theory (Professor Bagley); educational administration and supervision and elementary education (Professor Bagley); secondary, vocational, and higher education (Professor Johnston and Professor Hollister); educational psychology, including mental tests and clinical psychology, health administration, and school hygiene (Professor Whipple).

The equipment of the department for graduate work comprises: (a) A library of some 20,000 volumes (besides pamphlets), including the Aron Library of 8,000 titles relating largely to European education in the sixteenth, seventeenth, and eighteenth centuries; a collection of documents representing educational development in the United States, including school reports and courses of study and of state and city systems; and a text-book library representing the development of elementary and secondary school texts used in American schools from the beginning of the nineteenth century; (b) an educational museum, containing exhibits of school furniture, apparatus, illustrative material, and representative work of pupils; (c) a laboratory of educational and clinical psychology equipped for mental and physical tests.

PUBLICATIONS OF THE SCHOOL OF EDUCATION

The School of Education publishes a series of bulletins comprising (a) reports of the annual High School Conference, the Conferences on Teachers' Institutes,

and other meetings and conferences regarding public education held at the University, and (b) reports of investigations and studies by members of the instructional staff and students in the department.

The department of education is unofficially related through the editorial work of its members to the following journals: *The Journal of Educational Psychology* (Baltimore), edited by J. C. Bell, W. C. Bagley, C. E. Seashore, and G. M. Whipple; and *Educational Administration and Supervision* (Baltimore), edited by C. H. Johnston, L. D. Coffman, J. H. Van Sickle, and David Snedden.

COMMITTEE ON APPOINTMENT OF TEACHERS

The Committee on Appointment of Teachers recommends qualified graduates of the University for positions as teachers or supervisors in public schools, colleges, and technical schools in response to requests from the school authorities. The Director of the School of Education is chairman of the Committee, and the Secretary of the School is its chief executive officer.

The recommendations of the Committee are made under the following regulations of the University Senate.

1. The University Committee on Appointments is authorized to issue its recommendation, signed by the Committee as the agent of the University, in all cases in which it is satisfied with the student's scholarship and ability to teach. The Committee shall regard the scholarship requirements as met if, in addition to carrying the professional courses mentioned in the next paragraph, the student has passed with an average grade of 85 in the courses necessary to constitute a major in the principal subject which he wishes to teach, and in courses aggregating a minimum varying from six to twelve semester hours (according to subject, and at the discretion of the Committee) in each of the other subjects for which he wishes to be recommended. The committee shall, however, in each case secure the written opinion of the departments concerned in regard to the scholarship of the applicant, and shall view the evidence of scholarship as shown by the records in the light of this opinion; and if there appear to the Committee to be reasons which from their nature cannot be shown by mere records for questioning the scholastic ability of the student, the Committee may in its discretion withhold the recommendation.

2. A candidate must have successfully completed the following courses in the department of education:

- a. An introductory course which shall aim (1) to acquaint the prospective teacher with the public-school system as it exists today in the United States, and (2) to present a brief outline of the principles of education. (A four-hour course.)

- b. A course in the technics of teaching, accompanied by observation of class-room work in secondary schools, and including a discussion of class-management (routine and discipline), the elements of school hygiene, and the types of school exercises. (A three-hour course.)

3. The Director of the School of Education may, in his discretion, excuse a candidate from the professional courses outlined above, (1) if the candidate is a normal-school graduate or has taken equivalent courses in a normal school or in another college or university; or (2) if the candidate has had at least one year of successful teaching experience. If, at the time of registration with the Committee on Appointments, the candidate has not completed one of the required courses, but is enrolled at that time in the course, a Committee recommendation may be given with the approval of the instructor in charge of the course.

The courses mentioned in Section 2 are (a) Education 1, Introduction to Education (4 hours), and (b) Education 10, Observation and Technics of Teaching (3 hours). Either course may be taken in either semester.

CERTIFICATION OF HIGH-SCHOOL TEACHERS IN ILLINOIS

A student who expects to teach in the Illinois high schools should bear in mind that all teachers must be duly certificated. County high-school certificates are granted upon examination by county superintendents, and State high-school certificates upon examination by the State Superintendent. For county high-school certificates issued without an examination the new certificating law makes the following provision:

"At the option of the county superintendent, a high school certificate may be issued without examination to graduates of a recognized normal school, college, or university, who present within three years after graduation, certified credits in English, pedagogy and six high school subjects (chosen from a list published by the Examining Board) and accompanied by faculty recommendations of ability to teach in the high school." (Section 6.)

The educational courses required for the official recommendation of the University, Education 1 and 10, are commonly accepted as meeting the requirement in pedagogy.

State high-school certificates are granted under the following conditions:

"A four-year high school certificate valid in any high school in the State, for which the requirements shall be: (1) Graduation from a recognized college or university, or the completion of an equivalent preparation. (2) three years' successful teaching, two of which shall have been in the State on a first grade, a high school, or a supervisory county certificate: (3) a successful examination in English, educational psychology, and the principles and methods of teaching, and (4) the preparation of a thesis on one or more secondary school problems, the subject or subjects of which shall be selected from a list prescribed by the Superintendent of Public Instruction.

"[NOTE—Candidates who have had three years of successful experience in teaching, two of which were in Illinois under a first grade certificate and have exchanged the same for a county high school certificate under the new law, meet the requirements of No. 2]" (Circular 72, State Department of Public Instruction.)

Education 1, 10, and 25 embody the materials usually covered by the State examinations in educational psychology and in methods of teaching.

CERTIFICATION OF SUPERINTENDENTS AND PRINCIPALS

The following are the requirements for certification in supervisory work:

"A four-year supervisory certificate valid for supervisory work and for teaching in any district in the State. The requirements for this certificate shall be: (1) Graduation from a recognized high school and from a recognized normal school, or an equivalent preparation; (2) three years' successful supervision, two of which shall have been in this State on a county supervisory certificate; (3) a successful examination in English, educational psychology, sociology, the history of education, and school organization, administration, and supervision, and (4) the preparation of a thesis on one or more problems of school administration, the subject or subjects of which shall be selected from a list prescribed by the Superintendent of Public Instruction.

"[NOTE—Candidates who have had three years of successful experience in teaching, two of which were in Illinois, under a first grade certificate, and have exchanged the same for a county supervisory certificate under the new law, meet the requirements of No. 2.]

LIFE CERTIFICATES

"At the time of its expiration upon evidence of successful teaching or supervision satisfactory to the Superintendent of Public Instruction, any four-year State certificate enumerated in this Act shall become valid and be endorsed for life. The Validity of State certificates now in force and those issued in accordance with this Act, shall be conditioned upon the good behavior of the holder." (Circular 72, State Department of Public Instruction.)

Education 1, 2, 4, 16, 20, and 25 embody the material usually covered by the examination (except in English) for the State supervisory certificate.

REQUIREMENTS OF THE NORTH CENTRAL ASSOCIATION

Students who anticipate teaching in high schools accredited to the North Central Association of Colleges and Secondary Schools should complete courses in education aggregating at least *eleven* semester hours. This requirement of the Association is effective for new teachers after 1915, but is not retroactive. Certain work offered outside the department of education, especially "teachers' courses," may be counted as part of the eleven-hour minimum.

THE SCHOOL OF RAILWAY ENGINEERING AND ADMINISTRATION

GENERAL STATEMENT

The School of Railway Engineering and Administration has been established to prepare men for the technical and administrative departments of railroads. The work offered is arranged in five different curriculums, any one of which is designed to occupy four years' time. The curriculums are:

- Railway Civil Engineering
- Railway Electrical Engineering
- Railway Mechanical Engineering
- Railway Administration
- Railway Transportation

The first three of these curriculums are administered by the College of Engineering, and a description of them appears with that of other curriculums offered by this College. Students are admitted to them under the same conditions as to other curriculums of the College of Engineering, and they have available for their use all of the library, drafting-room, and laboratory facilities which constitute the equipment of this College. The last two curriculums are administered by the College of Commerce and Business Administration; they are described in detail in connection with the other curriculums of this College. Students are admitted to them under the same conditions as to other curriculums of the College of Commerce and Business Administration.

It is the purpose of each of these curriculums to add to a foundation of general discipline and training specialized training for those who look forward to careers in railway service.

MILITARY SCIENCE

The military instruction is under the charge of an officer of the United States Army. The course has special reference to the duties of officers of the line. A

IMPORTANT NOTICE

ADDITIONAL REQUIREMENTS AND OFFERINGS IN MILITARY SCIENCE UNDER THE NATIONAL DEFENSE ACT OF JUNE 3, 1916

Under the Act of Congress of June 3, 1916, there have been established at the University of Illinois three units of the Reserve Officers' Training Corps.

All male students admitted to the University of Illinois (except in the professional departments) who are citizens of the United States and physically fit are enrolled during their freshman and sophomore years in the Reserve Officers' Training Corps, and are required during these two years to devote three periods a week of not less than one hour each to military science and training. Two of the three periods are devoted to drill practise, and one period to theoretical training.

At the end of the sophomore year a student who so elects, who is recommended by the President of the University and approved by the Professor of Military Science and Tactics, and who signs a form of written agreement prescribed by the Secretary of War, may be enrolled for two more years of service in the Reserve Officers' Training Corps. Such students are required to devote five hours a week to an advanced course in military science and training throughout their junior and senior years, and the completion of this work becomes for them a prerequisite for graduation. They are required also to attend two summer training camps of four weeks each.

One hour of credit toward graduation is given for each semester of work in military science, making four credits for the required work of the freshman and sophomore years, and eight credits in all for students who elect the advanced course of the junior and senior years.

The Federal Government furnishes uniforms for all members of the Reserve Officers' Training Corps; and those students who are enrolled in the elective advanced course of the junior and senior years receive also commutation of subsistence as fixed by the Secretary of War (amounting at the present time to between \$90 and \$100 a year). The Government pays also the expenses of attendance at the required training camps, including traveling expenses.

A student who completes the elective advanced course is eligible for appointment by the President of the United States as a reserve officer of the United States Army for a period of ten years; and is eligible, also, for appointment as a temporary second lieutenant of the Regular Army, in time of peace, for purposes of instruction, with the allowances provided by law for that grade and pay at the rate of \$100 a month for six months; on the expiration of this period of service with the Regular Army, he reverts to the status of a reserve officer.

regulations, rosters of the officers of the army and the navy, and data concerning the military schools and land grant colleges of the country.

PHYSICAL TRAINING

FOR MEN

The object of the work in this department is to preserve and improve the bodily health of the students by rational exercises and to teach proper inter-collegiate sports. Physical training is compulsory for all freshmen. Regular classes are formed in swimming and fencing and for drill on the various gymnasium appliances. Lectures are given on personal hygiene.

All competitive athletic games are under the direct supervision of the Director of Physical Training, and an examination is required to show that membership on any team will not cause injury, but will tend to improve the physical condition. No student whose class work is unsatisfactory is allowed to play on a University team.

For a description of the Men's Gymnasium, see page 56.

FOR WOMEN

The object of the work of this department is to preserve and improve the general health, carriage, and coordination of the young women of the University. Each student is given a physical examination; suitable exercise is prescribed and advice given.

The class work embraces corrective, hygienic, and recreative exercise, including free and light gymnastics, marching, simple steps, games, and Maypole. Tennis, hockey, basket-ball, volley-ball, German-ball, and quoits are played in season.

The gymnasium is open at certain hours and under suitable restrictions to all women of the University. The uniform consist of black serge bloomers, white cotton blouse, black tie, and gymnasium shoes.

The swimming pool is open daily, except Saturday, from 10 to 12 a. m., and from 2 to 5:30 p. m. The regulation swimming suit of one piece must be made of cotton jersey of other cotton material.

For a description of the Woman's Gymnasium, see under Woman's Building, page 57.

ONE-YEAR MEDICAL COLLEGE (URBANA)

This curriculum is open to students who have completed the two years prescribed pre-medical curriculum at Urbana, as described on page 125, or its equivalent.

FIRST SEMESTER		SECOND SEMESTER	
	Hours ¹		Hours ¹
Bact. 1—Introductory Bacteriology.....	3	Bact. 26—Pathological Bacteriology.....	2
Chem. 15—Physiological Chemistry.....	5	Chem. 15a—Metabolism.....	3
Physiol. 1—Histology.....	3	Physiol. 2—Experimental Physiology.....	5
Physiol. 4—General Physiology.....	5	Physiol. 8—Histology.....	5
Human Anatomy 1—Introduction.....	3	Human Anatomy 2—Introduction.....	3
Total.....	19	Total.....	18

A student who completes this one-year curriculum in addition to the two years pre-medical curriculum (page 125), may receive credit by transfer for one year of work in the College of Medicine of the University of Illinois at Chicago, and on completion of the second year of work in that College may receive the degree of Bachelor of Science on the recommendation of the faculty of the College of Liberal Arts and Sciences of the University of Illinois. By this combined arts-medical curriculum the student may receive the degrees of Bachelor of Science and Doctor of Medicine with six years of work.

By making this one-year medical college curriculum the fourth year in the College of Liberal Arts and Sciences, including in the three preceding years the courses in the pre-medical curriculum described on page 125, and shaping his curriculum with the approval of the Dean of that College, a student may receive the degree of Bachelor of Arts at the end of four years. He may thus secure with seven years of work the degrees of Bachelor of Arts and Doctor of Medicine.

¹Semester hours. For definition, see page 247.

THE SUMMER SESSION

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY
WILLIAM CHANDLER BAGLEY, Ph.D., *Director of the School of Education, and Director of the Summer Session (1916)*

STAFF OF INSTRUCTION—1916

FRANK MALLOY ANDERSON, Ph.D., *Professor of History, Dartmouth College, Hanover, New Hampshire*
WILLIAM CHANDLER BAGLEY, Ph.D., *Professor of Education*
FRANCIS MARSH BALDWIN, A.M., *Assistant in Zoology*
PAUL LEVERN BAYLEY, A.M., *Assistant in Physics*
WALTER SPURGEON BEACH, B.S.A., M.S., *Assistant in Botany*
GEORGE DENTON BEAL, Ph.D., *Associate in Chemistry*
HARRIETT JOSEPHINE BERNINGER, A.B., *Assistant in Education*
LEONARD BLOOMFIELD, Ph.D., *Assistant Professor of Comparative Philology and German*
HARRY TYLER BOOTH, B.S., *Assistant in Physics*
CLARENCE VALENTINE BOYER, A.M., Ph.D., *Associate in English*
VERNA BROOKS, A.B., *Instructor in Physical Training for Women*
SLEETER BULL, M.S., *Associate in Animal Nutrition*
WILLIAM LEONIDAS BURLISON, M.S., Ph.D., *Associate Professor of Crop Production*
HOWARD VERNON CANTER, Ph.D., *Assistant Professor of Classics and Assistant Dean, College of Liberal Arts and Sciences*
DAVID HOBART CARNAHAN, A.M., Ph.D., *Associate Professor of Romance Languages*
CHARLES SERAPHIN CARRY, *Assistant in Romance Languages*
EDWARD WILSON CHITTENDON, Ph.D., *Instructor in Mathematics*
ARTHUR SAMUEL COLBY, M.S., *Assistant in Pomology*
ARTHUR CHARLES COLE, M.A., Ph.D., *Associate in History*
ARTHUR ROBERT CRATHORNE, B.S., Ph.D., *Associate in Mathematics*
CLARENCE GEORGE DERICK, M.S., Ph.D., *Assistant Professor of Chemistry*
JAMES MERION DUNCAN, *Assistant in Pattern Making*
KARL JOHN THEODORE EKBLAW, M.S., *Associate in Farm Mechanics*
EDGAR WALLACE ENGLE, Ph.D., *Instructor in Chemistry*
NEWTON EDWARD ENSIGN, B.A., B.S., *Associate in Theoretical and Applied Mechanics*
JOHN LAWRENCE ERB, F.A.G.O., *Director School of Music and University Organist*
ROY NEWTON FARGO, B.S., *Director Men's Gymnasium*
CHARLES STEVER FAZEL, A.M., *Assistant in Physics*
GEORGIA ELIZABETH FLEMING, B.S., *Instructor in Textiles*
JUSTON WATSON FOLSOM, Sc.D., *Assistant Professor of Entomology*
HOBART D FRARY, M.E., M.S., *Assistant in Mathematics*
HARRY LOVERING GILL, *Associate in Track Athletics*
JOSEPH EUGENE GILLET, Ph.D., *Associate in Comparative Literature and German*
ROBERT DOUGLAS GLASGOW, Ph.D., *Instructor in Entomology*
OLAF HAROLD GLIMSTEDT, G.D., *Assistant in Athletic Training*
ALEXANDER GREEN, A.M., Ph.D., *Instructor in German*
FRED L GRIFFIN, *Art Metal and Jewelry*

- GILBERT GUSLER, B.S., *Associate in Animal Husbandry*
 CHARLES HENRY HECKER, A.M., Ph.D., Ch.E., *Instructor in Chemistry*
 HAROLD NEWCOMB HILLEBRAND, A.M., Ph.D., *Instructor in English*
 LEONA HOPE, *Instructor in Department of Household Science*
 B SMITH HOPKINS, Ph.D., *Associate in Chemistry*
 GEORGE A HUFF, *Director Department of Physical Training*
 LAURENCE CRANE JOHNSON, Ph.D., *Research Assistant in Chemistry*
 CHARLES HUGHES JOHNSTON, A.M., Ph.D., *Professor of Secondary Education*
 HARRY STUART VEDDER JONES, A.M., Ph.D., *Assistant Professor of English*
 RALPH ROBERT JONES, *Associate in Basketball*
 EARL KILBURN KLINE, A.M., *Instructor in German*
 CHARLES TOBIAS KNIPP, A.M., Ph.D., *Associate Professor of Experimental Electricity in Physics*
 CINCINNATI LAGUARDIA, A.B., *Assistant in Romance Languages*
 EDWARD JOHN LAKE, B.S., *Assistant Professor of Art and Design and Acting Head of Department*
 WILLIAM T LAPRADE, Ph.D., *Professor of History, Trinity College, Durham, North Carolina*
 HOWARD BISHOP LEWIS, Ph.D., *Associate in Physiological Chemistry*
 JAMES P. LICHTENBERGER, A.M., Ph.D., *Professor of Sociology, University of Pennsylvania, Philadelphia, Pennsylvania*
 SIMON LITMAN, Dr.Jur.Pub.et Rer.Cam., *Assistant Professor of Economics*
 JEAN MACKINNON, A.B., A.M., *Assistant Professor of Chemistry, Iowa State College, Ames, Iowa*
 JOHN MABRY MATHEWS, Ph.D., *Assistant Professor of Political Science*
 O C MAUTHE, *Director of Physical Education, Stout Institute, Menominee, Wisconsin*
 JOHN MEZ, Ph.D., *Lecturer for the American Association for International Relations*
 WILFORD STANTON MILLER, A.M., *Assistant and Secretary in Education*
 OLIN HARRIS MOORE, Ph.D., *Associate in Romance Languages*
 ARETUS WILBUR NOLAN, A.B., M.S., *Assistant Professor Agricultural Extension*
 WILLIAM ABBOTT OLDFATHER, A.M., Ph.D., *Professor of Classics*
 JOSEPH C PARK, *Director of Industrial Education, Oswego, New York State Normal School*
 HARRY GILBERT PAUL, A.M., Ph.D., *Assistant Professor of English Language and Literature*
 HUGH WILEY PUCKETT, A.M., Ph.D., *Instructor in German*
 ALVIS L RHOTON, *Professor of Pedagogy, Georgetown College, Georgetown, Kentucky*
 ELMER ROBERTS, B.S., *Instructor in Genetics and First Assistant in Experiment Station*
 FLOYD ELBA ROWLAND, B.S., A.M., *Assistant in Chemistry*
 HIRAM THOMPSON SCOVILL, A.B., *Instructor in Accountancy*
 GEORGE WALLACE SEARS, M.S., Ph.D., *Instructor in Chemistry*
 FRED B SEELY, M.S., *Associate in Theoretical and Applied Mechanics*
 VICTOR ERNEST SHELFORD, Ph.D., *Assistant Professor of Zoology*
 CHARLES LESLIE STEWART, A.M., Ph.D., *Instructor in Economics*
 FRANK LINCOLN STEVENS, M.S., Ph.D., *Professor of Plant Pathology*
 JOHN E STOUT, A.M., *Professor of Education, Cornell College, Mt. Vernon, Iowa*
 EMERSON GRANT SUTCLIFFE, A.M., *Assistant in English*
 CHARLES MANFRED THOMPSON, A.M., Ph.D., *Associate in Economics*
 RALPH EARLE TIEJE, A.M., *Instructor in English*

EDGAR JEROME TOWNSEND, Ph.D., LL.D., *Professor of Mathematics*
ALFRED HORATIO UPHAM, *Professor of English, Miami University, Oxford, Ohio*
ALEX VALLANCE, M.E., *Instructor in Theoretical and Applied Mechanics*
CORA E WALLACE, *Supervisor of Music, Gary, Indiana*
EARL HORACE WARNER, A.M., *Assistant in Physics*
GUY MONTROSE WHIPPLE, Ph.D., *Professor of Education*
ELMER HOWARD WILLIAMS, Ph.D., *Associate in Physics*
CHARLES HENRY WOOLBERT, A.M., *Associate in English and Public Speaking*
ROBERT CARL ZUPPKE, Ph.B., *Associate in Football*

GENERAL STATEMENT

The Summer Session of the University of Illinois for 1916 opened on June 19, and closed on August 11, making a term of *eight weeks*. The Summer Session of 1917 will open on June 18 and close on August 10.

All the courses extend through the eight weeks. Students who wish to remain for only six weeks may obtain from the Director of the Session a certificate of such attendance, but university credit will not be given for six-weeks courses.

Students may register for courses aggregating eight credit hours or less.

PURPOSE

The primary purpose of the Summer Session is to meet the needs of teachers in the public schools who wish to spend a part of the summer in study or investigation. The greater number of courses offered are designed for high-school teachers, supervising officers, and teachers of special subjects (art, music, manual training, domestic science, agriculture), and for college instructors, school supervisors, and principals who are working for advanced degrees. At the same time, students who may not fall within these groups are welcomed at the Session, and several courses of a more general nature are provided to meet their needs.

ADMISSION

Admission in regular status to courses in the Summer Session for which university credit is granted is limited to students who could be regularly admitted to the college of the University (Liberal Arts and Sciences, Commerce and Business Administration, Engineering, or Agriculture) in which they would be registered in the regular session.

In order to meet in full the entrance requirements for any one of these colleges, a student must obtain credit, either by passing entrance examinations, or by presenting certificates of work completed in accredited secondary schools or other recognized schools, for 15 units of high-school work, or the equivalent, in subjects accepted for admission to the University, including in the case of each college certain subjects especially prescribed for admission to that college. (See pages 66-84.)

Admission to courses which give university credit, *as special students, not candidates for a degree*, may be granted to persons 21 years of age or over, subject to the general regulations of the University relating to special students.

REGISTRATION

Students will present themselves for registration on Monday, June 18, 1917.

FEES

A tuition fee of twelve dollars (\$12) is required of all students in regular attendance at the Session. This entitles one to admission to regular courses and to all special

lectures. An extra laboratory fee is charged in some courses for materials used. Any single course may be taken for a fee of six dollars (\$6) and the laboratory fee, if there be one. A single course is understood to mean not more than two and one-half credit hours.

SCHOLARSHIPS

By ruling of the Board of Trustees of the University, all high school teachers in Illinois, and all other teachers in the State who are qualified to matriculate in the University as regular students, are entitled to Summer Session scholarships, exempting them from payment of the tuition fee. To matriculate regularly in the University, one must either pass the entrance examinations, or present a certificate from an accredited high school or other evidence of having completed the requisite amount of preparatory work.

The Board of Trustees has extended the scholarship privileges also to persons graduated from the Illinois State Normal Schools during the academic year preceding the session in which the scholarship is desired, and to persons (otherwise qualified) who have not been teachers, but who are under contract to teach in the State during the coming year.

Application blanks for scholarships may be obtained by addressing the Director.

GRADUATE WORK IN THE SUMMER SESSION

The Summer Session places emphasis on graduate courses leading to the master's degree. The departments related to high-school teaching and to educational administration have been selected as the centers of this emphasis. An attempt is made to vary the graduate offerings from year to year so that advanced students each year may find acceptable work in their chosen fields.

The normal requirement for the master's degree is full work of graduate grade, satisfactorily completed, through one year of residence. This means a residence of thirty-six weeks at the University. Qualified graduate students may fulfill this residence requirement in four summer sessions of eight weeks each and an additional four weeks' study at the University under the direction of the person in charge of the major work. Thus a student, by working at the University for one week before or after each session under the direction of the professor in charge of his major subject, may earn the master's degree in four summers.

In certain cases it will be possible for the graduate student to complete the last fourth of his residence requirement under a leave of absence. This privilege may be granted in the event that the student is able to take advantage of opportunities for research and investigation that are not afforded in the University community. Superintendents, principals, and class-room teachers frequently find it possible to carry on investigations in connection with their school work. There are, for example, numerous problems of school administration and of teaching for which the public school itself forms the only available "laboratory." Where the investigation of such problems is prosecuted with the cooperation of a department of the University, it may be possible to count the work toward the master's degree.

SUMMER COURSES IN LIBRARY TRAINING

Beginning in the summer of 1911, the Library School has conducted each year a summer session continuing for six weeks, to which were admitted only those actually employed as librarians, or library assistants, or teacher-librarians, or under definite appointment to serve in such positions. In 1915 the requirement of graduation from a high school was added. The curriculum was planned to meet especially

the needs of workers in public libraries and in high school libraries, of Illinois and no tuition fee was charged students entering from this State; students entering from libraries in other states paid a tuition fee of \$12. The work was under the general direction of the faculty of the Library School, and the instruction was given by members of the faculty, supplemented by lectures by neighboring librarians. No university credit has been given for the work.

The work occupied the whole time of the student. The number of lectures in each subject was approximately as follows: Cataloging; classification and book numbers, 30 hours; book selection, 12 hours; library administration and extension, 12 hours; reference work, 12 hours; work with children, 12 hours; loan systems, order, accession and shelf work, binding and repairing, 12 hours.

The Library courses are not offered in connection with the Summer Session, but as an independent undertaking of the Library School.

PLAYGROUND WORK AND COACHING

In addition to the regular gymnasium work, special courses in coaching high school athletics were offered under the general direction of George A. Huff, Director of Physical Training for Men. This work was added because of the increasing demand for trained men to direct high school athletics. A course in plays and games designed for teachers who coach high-school girls or supervise grammar school games, was offered by Miss Verna Brooks, Instructor in Physical Training for Women.

Courses were offered in baseball coaching (Mr. Huff), football coaching (Mr. Zuppke), basketball coaching (Mr. Jones), and track coaching (Mr. Gill). These courses were particularly adapted to high school teachers and principals who are engaged for part of their time in coaching athletic teams. The courses were so arranged that a student might, if he desired, devote his entire program to this work.

DESCRIPTION OF COURSES

For a description of the courses offered in the Summer Session, see the General Description of Courses, beginning on page 247.

THE COLLEGE OF LAW

For the *faculty* of the College of Law and for the *courses* in law, see under "Law" in the "Description of Courses", Part III: for *fees* and *expenses*, page 110.

GENERAL STATEMENT

It is the aim of the College of Law to fit its students as completely as possible for the practise of law. The mere imparting of knowledge of the law as it is must be subordinated to the more important end of developing the student and training him in proper habits of legal reasoning and argument. The method of discussion by the professor and student of selected judicial opinions is employed, but not to the exclusion of other methods designed to stimulate thought and initiative, such as the independent briefing of legal problems.

Courses are conducted so as to give a training in the common law which constitutes the foundation for the practise in law in Illinois and in any state in the Union. Students are required to consult frequently Illinois decisions and statutes, which are made the basis of discussion in class. In the Moot Court and the course in Illinois Procedure, especial attention is paid to the rules of pleading and practise in Illinois.

The curriculum is designed to occupy three full years. The work of the first year, twenty-eight semester hours, is prescribed, a semester hour being one hour a week for one semester. The work of the second and third years, except in equity, is elective. Students are required to elect courses averaging twenty-eight hours for each of these years. The courses elected for any year must ordinarily be chosen from those grouped under the heading for that year.

ADMISSION

For admission as a regular student and candidate for the degree of Bachelor of Laws, an applicant must be matriculated and have 60 hours credit in a college of this University; or have completed two full years of work as given at another college or university of recognized standing; or have received by transfer 60 hours of university credit here.

SPECIAL STUDENTS

A student who is twenty-one years of age and is entitled to admission as a regular student to another college of this University, will be admitted as a special student in the College of Law. If he attains in the courses of the first year an average grade of 80 or over, he will be admitted to regular standing, and he may receive the degree of Bachelor of Laws if in all the courses he presents for the degree his average grade is 80 or more.

Students twenty-one years of age or over, who are not able to satisfy the requirements for admission stated above, but who have had a preliminary education which would entitle them to take the Illinois State Bar Examination, may, by permission of the faculty, be admitted without examination as special students, but no such student may be a candidate for a degree. In exceptional cases, other persons may, by permission of the faculty, be admitted as special students.

ADVANCED STANDING

After matriculating, an applicant may obtain advanced standing (1) by transfer of credits from another accredited law school upon presentation of a certificate of honorable dismissal and a certified record of work done; or (2) by examination taken at the time of entrance to the College of Law in first year subjects only.

SUGGESTED PREPARATORY CURRICULUM

The following schedule of studies is recommended by the faculty of the College of Law for students taking two years in the College of Liberal Arts and Sciences to meet the requirement for admission to the College of Law:

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours ¹		Hours ¹		Hours ¹
Foreign language.....	4	Foreign language.....	4	Foreign language.....	4
Hist. 2a—English History.....	3	Hist. 2b—English History.....	3	Hist. 2b—English History.....	3
Science.....	5	Math. 2—College Algebra.....	3	Math. 2—College Algebra.....	3
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene 1	3	Phys. Tr. 2—Gymnasium.....	1	Phys. Tr. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	1	Mil. 1—Drill Regulations.....	1	Mil. 1—Drill Regulations.....	1
		Mil. 2b—Military Drill.....	1	Mil. 2b—Military Drill.....	1
Total.....	17	Total.....	16	Total.....	16
SECOND YEAR					
Econ. 1—Principles of Economics.....	5	Econ. 3—Money and Banking.....	3	Econ. 3—Money and Banking.....	3
Hist. 3a—History of the U. S.....	3	Eng. 20—Chief English Writers.....	4	Eng. 20—Chief English Writers.....	4
Pol. Sci. 1—American National Government..	3	Hist. 3b—History of the U. S.....	3	Hist. 3b—History of the U. S.....	3
Science or foreign language.....	5 or 4	Pol. Sc. 3—State and Local Government....	3	Pol. Sc. 3—State and Local Government....	3
Mil. 2c—Military Drill.....	1	Phil. 1—Logic.....	3	Phil. 1—Logic.....	3
		Mil. 2d—Military Drill.....	1	Mil. 2d—Military Drill.....	1
Total.....	17 or 16	Total.....	17	Total.....	17

The courses in military and physical training, Rhetoric 1-2, and eight hours in foreign language are required of freshmen in the College of Liberal Arts and Sciences. Latin is strongly urged for all students intending to study law; but those who have not had the necessary preparation for college courses in Latin should substitute a modern language, preferably French or German.

COMBINED CURRICULUMS

By the proper selection of his studies it is possible for a prospective law student to take both the degree of bachelor of arts or of bachelor of science and the degree in law in six years. (See pages 122 and 142).

MOOT COURT

The sessions of the Moot Court are held every Monday afternoon of the first semester for the third year class, and every Monday afternoon of the second semester for the second and third year classes together. The court is presided over by Judge O. A. Harker, who has had an experience of twenty-five years as a judge of the Circuit and Appellate Courts of Illinois. It is the purpose to have the proceedings of the Moot Court conform to proceedings in the various courts of the state. Students are trained in the preparation of pleadings, brief making, legal investigation and argument, the preparation of legal documents and in the trial of cases, both civil and criminal.

THE LAW LIBRARY

The Law Library contains 21,000 volumes, including all the reports of the courts of last resort of all the states; the United States Supreme, Circuit, and District

¹Semester hours. For definition see page 247.

Court reports; the National Reporter System; the English reports; the Irish reports; the Scotch Appeal cases; the Current Canadian and Australian reports, and complete reports of several of the Canadian provinces; the statutes of the various states; several sets of selected cases, such as the American Reports, American State Reports, American Decisions, Lawyers' Reports Annotated, and American and English Cases Annotated; American and English encyclopedias and digests; and a full collection of standard text books and legal periodicals.

REQUIREMENTS FOR GRADUATION AND DEGREES

The degree of Bachelor of Laws will be granted to all regularly matriculated students who complete all the courses in the first year list; the course in Equity 12a-12b (second year); and enough of the other courses offered to make 84 hours of credit.

Degree of Doctor of Law

The degree of Doctor of Law (J.D.) will be granted to students who comply with the following conditions:

1. Complete the work required for the degree of Bachelor of Laws.
2. Secure a bachelor's degree in arts or science at least two academic years prior to the completion of the course for the degree of Bachelor of Laws.
3. Obtain a minimum average grade of 85 in the College of Law.
4. Present a thesis approved by the faculty of the College of Law, in accordance with the requirements hereinafter set out.

Rules Concerning Theses

The following are the rules concerning theses presented for the degree of Doctor of Law: (1) The thesis must be on a subject approved by the Dean of the College of Law after consultation with him as to the proposed method of treatment. (2) The subject of the thesis must be filed with the Secretary on or before December 20. (3) The thesis must be typewritten on paper 8½x11 inches, with at least one inch margin at the top, bottom, and sides. (4) It should contain not less than 4,000 nor more than 10,000 words. (5) In citing cases, names of parties, volume, page, and year should be given. Citations are not to be counted in determining the number of words. The student is expected to exhaust the cases decided during the period covered by his thesis, and to state the period for which the cases have been examined. (6) The thesis must be delivered to the Secretary of the faculty not later than May 1.

The thesis may then be returned to the writer for revision, or if unsatisfactory, it may be rejected altogether. If returned for revision it may be rejected after being revised. If accepted it will be filed in the Law Library, and may be published by the College of Law or by the University.

CERTIFICATE FOR ADMISSION TO THE ILLINOIS STATE BAR EXAMINATION

Any student altho not a candidate for a law degree, if he has taken at least ten hours a week for the period of three academic years, from among the courses offered, is entitled to a certificate thereof from the University, which certificate satisfies the requirements as to legal studies prescribed by the Supreme Court of the State of Illinois for admission to the bar.

CURRICULUM LEADING TO THE DEGREE OF LL.B.**First Year**

FIRST SEMESTER: Contracts (Law 1a); Torts (Law 2a); Criminal Law (Law 5); Personal Property (Law 6); Introduction to the Study of Law and Brief Making (Law 37).

SECOND SEMESTER: Contracts (Law 1b); Torts (Law 2b); Real Property (Law 3); Domestic Relations (Law 7); Agency (Law 11).

Second or Third Year

FIRST SEMESTER: Common Law Pleading (4); Sales (9); Equity (12a); Damages (13); Bills and Notes (15); Public International Law (30); Quasi-Contracts (32); Brief Making (35a).

SECOND SEMESTER: Real Property (Law 10); Equity (Law 12b); Evidence (Law 8); Equity Pleading (Law 20); Municipal Corporations (Law 24); Wills (Law 18); Trusts (Law 16); Moot Court (Law 35b).

Third Year

FIRST SEMESTER: Illinois Procedure (Law 4a); Partnership (Law 19); Constitutional Law (Law 22); Bankruptcy (Law 25); Conflict of Laws (Law 31); Moot Court (Law 36a).

SECOND SEMESTER: Private Corporations (Law 17); Public Utilities (Law 34); Suretyship (Law 21); Moot Court (Law 36b); Mortgages (Law 23); Office Practice (Law 29).

PRIVILEGES OF STUDENTS

The students of the College of Law may take, without extra fee, courses of study in other departments of the University, provided they secure the approval of the Dean of the College of Law. Especial attention is called to the courses in public speaking and debate, and to the courses in history, economics, and political science in the College of Liberal Arts and Sciences and the Graduate School.

Law students are entitled to library privileges in the general library as well as in the law library, and possess in general all the rights and privileges enjoyed by other students of the University.

SCHOLARSHIP PRIZES

Eight scholarship prizes are open to matriculated students of the first and second years, to be awarded at the end of each year, four of \$12 each and four of \$6 each, available in discharge of tuition fees.

THE COLLEGE OF MEDICINE

For the *faculty* of the College of Medicine, see page 35; for a description of the *building*, see page 58.

LOCATION

The College buildings are located in the city block lying between Harrison, Congress, Honore, and Lincoln streets, in Chicago.

CLINICAL FACILITIES

Dispensary

The Dispensary is divided into ten departments: medicine, pediatrics, orthopedics, laryngology, dermatology, ophthalmology, gynecology, neurology, and genito-urinary diseases. These departments occupy the first floor and part of the second floor of the college building. The average number of patients treated in 1915-16 was thirty thousand.

Dispensary instruction is given in the third and fourth years; the subjects of medicine, surgery, orthopedics, laryngology, and genito-urinary diseases in the third year, and the subjects of pediatrics, dermatology, neurology, ophthalmology, and gynecology in the fourth year. The larger departments devote two hours and the smaller departments one hour daily to this work. Three weeks' service is given by each department in each semester, so that the student receives a total of thirty-six hours in the larger departments and eighteen hours in the smaller departments.

Amphitheater Clinics

More than six hundred clinics besides the dispensary clinics are given each year. Practically all diseases seen in the temperate zone are demonstrated and most of the operations of surgery are performed. Fourth year students are required to examine and diagnose many cases and under certain conditions may assist in the operations.

Students are prohibited from doing work that interferes in *any* way with the fulfillment of the requirements of the curriculum. Unofficial clinical work may not be substituted for the official clinical requirements.

Hospital Clinics

The West Side Hospital, containing one hundred and forty-nine beds, five operating rooms, including a clinical amphitheater having a seating capacity of seventy-two, and a laboratory connected with the college by a corridor.

The University Hospital, corner Ogden avenue, Congress and Lincoln streets, opposite the College, contains ninety-two beds, two operating rooms, a laboratory, an X-ray department, and a clinical amphitheater of seventy-five seats.

These institutions are located near the College and certain clinical facilities, furnished by them, are open to its students.

Within half a block of the College is the Cook County Hospital, the chief free hospital in Chicago. During the past year it has cared for thirty thousand patients. In this hospital is conducted much of the clinical instruction of the College. Medi-

cal appointments in this institution are made each year by the Civil Service Board. The internes, sixty-four in number, are selected each spring by competitive examination. Only graduates of medical colleges of Cook County are eligible. The internes serve eighteen months in surgical, medical, and obstetrical work, and receive their board and laundry and have rooms in the hospital.

In addition to Cook County Hospital there are more than sixty public and private hospitals in Chicago, each appointing from two to four internes annually.

The students of this College are required to attend the clinics of the Cook County Hospital during their third and fourth years. The hospital tickets cost \$5.00 each, and are for sale at the office of the Warden. They admit the holders to all clinics and autopsies and to all public operations and lectures.

The County Morgue is located in the hospital grounds, and daily post-mortems are held by the pathologists of the hospital. Attendance is required during two years.

Members of the Faculty are connected with and give clinical instruction, to which students are admitted under certain conditions, in the following hospitals:

Cook County Hospital	St. Mary's Hospital
West Side Hospital	St. Luke's Hospital
University Hospital	Michael Reese Hospital
Augustana Hospital	North Chicago Hospital

THE QUINE LIBRARY

The library of the College of Medicine, named in honor of Dr. William E. Quine, for many years the Dean of the College and now Professor of Medicine, *Emeritus*, occupies the east end of the second floor of the Medical Building. This library contains 17,325 bound volumes, besides pamphlets and reprints and files of 250 American, German, English, French, and Italian journals. It is open from 9 to 5 daily, except Sundays and legal holidays.

This collection of books and periodicals is in charge of a librarian who is constantly present to assist and instruct students in the use of a technical library.

ADMISSION

Applicants for admission to the College of Medicine are required to offer:

I. Four years' work in an accredited high school, or the equivalent, comprising fifteen (15) units¹ of secondary credit and including prescribed subjects as follows:

English.....	3 units
Algebra.....	1 unit
Plane geometry.....	1 unit
German, French, Latin, or Greek.....	2 units
American history and civics.....	1 unit
Electives.....	7 units

Total.....15 units

II. Two years' work in a recognized college or university, comprising not less than sixty (60) semester hours² and including prescribed subjects as follows:

Physics..... 8 hours

¹A unit is the amount of work represented by the pursuit of one preparatory subject, with the equivalent of five forty-minute recitations a week, through 36 weeks; or, in other words, the work of 180 recitation periods of forty minutes each, or the equivalent in laboratory or other practise. In general, two hours in laboratory, shop, or drawing room are considered equivalent to one hour of recitation.

²Semester hours. For definition see page 247.

Chemistry.....	8 hours
Biology.....	8 hours
German or French.....	6 hours
Electives.....	30 hours
<hr/>	
Total.....	60 hours

Either the secondary or the collegiate requirements may be satisfied (a) *by certificate* or (b) *by examination*.

Secondary credits will be accepted *by certificate* from the following sources:

(1) From high schools and academies in the State of Illinois which are accredited to the University of Illinois.

(2) From schools accredited by the North Central Association of Colleges and Secondary Schools.

(3) From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools.

(4) From high schools and academies registered by the regents of the University of the State of New York.

(5) From schools approved by the New England College Entrance Certificate Board.

(6) From the state normal schools of Illinois and other normal schools having equal requirements for graduation.

Secondary credits may be made *by examination*.

(1) In the examinations conducted by the Registrar of the University of Illinois at the University in Urbana in January, July, and September of each year. For programs of these examinations, see pages 74-75.

(2) In the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in September of each year. In 1917 these examinations will be held September 20-22. Programs may be had by applying to the Secretary of the College of Medicine, Congress and Honore Streets, Chicago. The subjects offered will be the same as those included in the list on pages 67-69. For a description of the ground covered in the several subjects see pages 82-84.

(3) In the examinations conducted in June of each year by the College Entrance Examination Board. See page 70.

(4) In the examinations conducted by the Regents of the University of the State of New York.

Collegiate credits will be accepted *by certificate* from recognized colleges which require for admission the completion of at least 14 units of high school work in an accredited high school, or the full equivalent thereof, and for graduation, in addition, four years of college work; or may be made *by examination* in the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in September of each year. *Special arrangements must be made in advance with the Registrar for examinations in collegiate subjects.*

Students are strongly urged to acquire such an elementary knowledge of Latin as may be obtained in four or five years' work in school or college.

It will be noted that a properly prepared student of good ability can complete the minimum prescriptions in collegiate work within two years and still have considerable time for the study of language, history, economics, psychology, etc.—all subjects of which it is eminently desirable that the future physician should know something.

The above represent the minimum requirements for admission to the College of Medicine. It is strongly urged that students shall have completed at least three

years, or, if possible, four years, in a standard college before taking up the study of medicine.

ADVANCED STANDING

The University will accept scholarship and time credits for work done in medical colleges having standards equal to those of the College of Medicine of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the college in which he has pursued his medical studies and must comply with the requirements for such promotion in the University of Illinois.

CONDITIONS

For the year beginning in October, 1916, conditions were permitted as follows:

For the first, second, and third year classes—6 hours in college French or German, or 8 hours in collegiate electives. No conditions can be permitted in high-school subjects or in the prescribed college physics, chemistry, or biology.

For the fourth year—4 collegiate hours. No conditions can be permitted in high-schools subjects.

ADMISSION AS SPECIAL STUDENTS

The general rule of the University will apply to the College of Medicine: Persons over twenty-one years of age, *not candidates for a degree*, may, on special approval of the dean, be admitted to classes for which they are prepared.

REGISTRATION

Students are required to register in the office of the Secretary immediately upon the opening of the term for the work of that term, and credit will be allowed only in the branches in which the students are registered. Students are registered in the order in which their fees are paid. Registration of students closed October 5.

COLLEGIATE YEAR

The collegiate year of 1916-1917 consists of a session of thirty-seven weeks, beginning October 2, 1916, and ending June 13, 1917. Each year is divided into two semesters of eighteen weeks. Attendance on the full session is required in order to secure credit for a year's work, and attendance on four full sessions is required for graduation.

FEES AND EXPENSES

Fees—New Schedule effective September 1, 1917

Fees—	First Year	Second Year	Third Year	Fourth Year
Matriculation ¹	\$ 10.00	.....	.....	.....
Registration.....	5.00	\$ 5.00	\$ 5.00	\$ 5.00
General ticket.....	120.00	120.00	140.00	155.00
Laboratory.....	30.00	35.00	5.00	.....
Diploma.....	.....	.....	.....	5.00
	<hr/>	<hr/>	<hr/>	<hr/>
	\$165.00	\$160.00	\$150.00	\$165.00

NOTE.—County Hospital ticket, \$5.00. Maternity fee, Chicago Lying-In Hospital, \$15.00.

¹Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

No fees are charged regular students for special courses or quizzes. Under no circumstances are instructors, dispensary physicians, or professors allowed to receive a fee for instruction or service.

Fees charged special students are based on the amount of work taken.

Alumni are admitted, without charge, to all regular courses except in laboratory work, in which a charge is made for material actually used.

The Board of Trustees reserve the right to change the fees at any time.

Microscopes

Each student is required to have a microscope. Provision has been made whereby the student can purchase a microscope at reduced rates or make payment in annual installments. If a student be unable to purchase a microscope the College will rent him one for his exclusive use at the rate of \$2.50 or \$4.00 a semester, the rate depending on the equipment of the instrument.

Living Expenses

The expense of living in Chicago is less than in most other large cities. From twenty-five to thirty-five dollars a month may be regarded as adequate for ordinary living expenses, exclusive of books, clothing, railroad fare, and miscellaneous needs.

The expense for books varies between \$25.00 and \$50.00 a year. The instructors, at the beginning of each course, direct their students in regard to the purchase of text-books.

Scholarships

Through the generosity of the late Professor R. L. Rea, a fund has been provided for four scholarships each year for indigent worthy students. These scholarships are awarded to the four students whose credentials and qualifications for the study of medicine entitle them to participate in the benefits of the Rea fund.

The students whose names follow received benefit under this scholarship during the session of 1916-1917

Morris Baron Karatz

Arthur Henry Orcutt

Gertrude Evelyn Moulton

Spero Salpas

The scholarship given by the Northwestern branch of the Woman's Foreign Missionary Society of the Methodist Episcopal Church was awarded in 1916-17 to Miss Ethel Keckler.

COURSES OFFERED

Students entering the four-year curriculum as offered in the College of Medicine offer two years of work in liberal arts and sciences for admission. On the completion of the first two years in the College of Medicine, the degree of Bachelor of Science will be conferred; and on the completion of the four years in the College of Medicine, the degree of Doctor of Medicine will be conferred. The two years of work in arts and sciences required for admission to the College of Medicine may be taken in the College of Liberal Arts and Sciences at Urbana.

REQUIREMENTS FOR GRADUATION

1. Four full courses of instruction of not less than thirty-two weeks each, no two being in the same year, are required of every candidate for graduation.
2. The last course of instruction shall have been taken in this institution.
3. Acceptable evidence of good moral character must have been filed.
4. The candidate shall be at least twenty-one years old.

5. He shall have satisfactory credits and pass his final examinations in accordance with the rules of the Faculty.
6. All indebtedness to the college shall have been paid.

GENERAL PLAN OF INSTRUCTION

The curriculum required for graduation extends over four years. During the first two years the work is in the main confined to the sciences fundamental to practical medicine, and the time is largely devoted to laboratory work; during the first year, this consists of work in anatomy, chemistry, embryology, histology, and physiology. During the second year the study of anatomy and physiology is continued, and in addition the student takes up bacteriology, laboratory diagnosis, operative surgery, pathology, materia medica, pharmacology, therapeutics, and hygiene.

During the third and fourth years the time is largely devoted to the various clinical branches, emphasis being given to practical instruction in dispensary and hospital clinics.

Students eligible for promotion at the end of the third year may elect the work of the summer term, on the completion of which they are privileged to act in the capacity of externes in a number of the best hospitals in the city. This gives the student an opportunity to do additional practical work under the direct supervision of trained clinicians. The externe work is arranged so that it will not conflict with the requirements of the regular schedule.

Students are prohibited from doing work that interferes in *any* way with the fulfillment of the requirements of the curriculum. Unofficial clinical work may not be substituted for the official clinical requirements of the curriculum.

Optional Work

In addition to the required work, students may, after completing the work of the first year, with the permission of the Committee on Optional Courses, take one or more optional courses. No credit will be allowed for this work.

RULES FOR PROMOTION

The passing grade in each subject is 70. A grade of from 60 to 70 constitutes a condition. A conditioned student may have one re-examination in the subject. A mark below 60 or the failure to remove a condition by re-examination constitutes a failure, and the subject must be repeated in course. A student who has any failure standing against him may not be advanced to the next year without the permission of the committee on promotion. Students who fail in subjects given in the first semester of the fourth year totalling more than 48 hours will not be admitted to candidacy for graduation in that collegiate year, but must repeat the subjects the following year. No student may be a candidate for graduation in medicine who has conditions in subjects amounting to more than 96 hours.

No student having grades below 75 in subjects aggregating twenty-five per cent of his entire work in the junior college may be a candidate for the degree of Bachelor of Science.

General examinations will be held in all subjects at the end of each semester. The examinations for the removal of conditions for students of the first three years will be held during the week preceding the opening of the next collegiate year. Re-examinations in subjects presented in the first semester of the fourth year will be held not later than two weeks from the end of that semester.

The attention of prospective students is called to the fact that the University has always reserved and exercised the right to request any student to withdraw from the University when, in the opinion of the faculty, he was not profiting by his work in the institution either because of moral or intellectual qualities. The failure to do the work of the institution in a way satisfactory to the faculty has always been considered a sufficient ground for requesting the student to withdraw, and students will not be permitted to remain when for any reason, whether lack of ability or lack of industry or other cause, they are not doing their work in a satisfactory manner.

SUMMER TERM, 1916

In the summer of 1916 (June 15—September 7) there was offered a twelve-weeks term of clinical instruction, including dispensary and maternity work, as follows: Surgery, 60 hours; gynecology (clinical and dispensary), 58 hours; medicine, 40 hours; pediatrics (clinical and dispensary), 56 hours; obstetrics (clinical, bedside, and manikin), 44 hours; dermatology (dispensary), 18 hours; neurology (dispensary) 36 hours; ophthalmology (dispensary), 36 hours; Lying-In Hospital, 60 hours (estimated); total, 408 hours. The instruction was given by Drs. E. K. Armstrong (pediatrics), C. S. Bacon (obstetrics), C. W. Barrett (gynecology), F. Chauvet (physical diagnosis), T. A. Davis (surgery), F. G. Dyas (surgery), E. L. Heintz (medicine), J. H. Hess (pediatrics), J. M. Lang (gynecology), G. J. Lorch (medicine), E. S. Moore (medicine), F. D. Moore (surgery), and N. M. Percy (surgery). Thirty-eight students were enrolled.

DESCRIPTION OF COURSES IN MEDICINE

ANATOMY, HISTOLOGY, EMBRYOLOGY

ALBERT CHAUNCEY EYCLESHYMER, B.S., M.D., Ph.D., *Professor, Head of the Department*

FREDERICK BOGUE NOYES, A.B., D.D.S., *Professor, Dental Histology*

VICTOR EMANUEL EMMEL, Ph.D., *Assistant Professor*

ROY LEE MOODIE, Ph.D., *Associate*

L V HEILBRUNN, *Instructor*

SAMUEL W WILLISTON, M.D., Ph.D., D.Sc., *Professorial Lecturer, Comparative Anatomy*

THOMAS SMITH JONES, B.F.A., *Artist*

LOUIS N BOELIO, *Technician*

MORRIS KRAMER, *Technician*

General Statement

The laboratories for gross anatomy comprize two dissecting rooms and a number of smaller rooms for embalming, storing, and prosecting. A plastic studio, a branch of the Hammer Studio of Munich, is situated on the sixth floor adjacent to the dissecting room and is available for anatomical reconstruction work and the use of models for teaching purposes. The laboratory for histology and embryology and the offices and research laboratories, are on the third floor of the Medical Building. The equipment includes apparatus for embalming, sectioning, macerating, corroding, and digesting; microtomes, microscopes, paraffin ovens, drawing apparatus, chemicals, glassware and Grüber stains. A small museum contains special dissections, osteological preparations, and models; sets of histological, neurological, and embryological slides; charts, lantern slides, and other teaching accessories. The departmental library contains the standard texts and about two thousand five hundred special monographs. All the English, German and French anatomical journals are received. The Crerar library is readily accessible and makes it possible to consult practically the whole literature of anatomy, zoology, and biology.

Required Courses—First Year

Embryology.—Ovogenesis and spermatogenesis, maturation, ovulation and its relation to menstruation, fertilization, segmentation, gastrulation, formation and significance of germinal layers; the formation of foetal envelopes and placenta; organs and systems of organs; congenital malformations. Lectures and recitations: 2; laboratory: 2 two-hour periods. *II (second half.)*¹

Professor EYCLESHYMER and assistants

Cytology, Histology, and Microscopic Anatomy.—Animal cells; modified cells, such as are found in blood and lymph, epithelial, connective, muscular, and nervous tissues and their relationships in the body. Lectures and recitations: 3; laboratory: 3 three-hour periods. *I.*

Professor EYCLESHYMER and assistants

¹The first and second semesters are indicated by the Roman numerals I and II, respectively. A portion of a semester is indicated by the words in parenthesis following the semester numeral. Unless otherwise specifically stated, the Arabic numerals indicate the number of one-hour periods a week in each subject.

Neurology.—The gross and microscopic anatomy of brain, spinal cord, and organs of special sense. Lectures and recitations: 2; laboratory: 2 two-hour periods. *II (first half).* Professor EYCLESYMER and assistants

Systematic Anatomy.—Dissection of the human body. For convenience, the body is subdivided into: (1) upper and lower extremities; (2) thorax and abdomen; (3) the head and neck. Lectures, recitations, and laboratory: 3 three-hour periods. *I, II.* Assistant Professor EMMEL and assistants

Required Courses—Second Year

Topographical Anatomy.—The topography and relations of the various regions, systems and organs of the body. Lectures and recitations: 2; laboratory: 2 three-hour periods. *I.* Dr. MOODIE and assistants

Applied and Surgical Anatomy—(See department of surgery.)

Optional Courses

Microscopical Technics.—Preparation of objects; injecting blood vessels and lymphatics; maceration, digestion, corrosion; decalcification, fixation of tissues, embedding, sectioning, staining, mounting. *Hours to be arranged.*

Mr. BOELIO

Medical Illustrating.—Drawing, including perspective; values and their adaptation in the representation of medical subjects; normal and pathological specimens, both gross and microscopic; media adapted for representing certain conditions and structures, and for special methods of reproduction, such as line work, half tone, and lithography. (Open to all who are interested in the making of medical illustrations for publications.) *Hours to be arranged.*

Mr. JONES

Embryology and Histogenesis.—The structural changes in the principal tissues and their cellular elements during growth; changes in the structure of cells during senescence. *Hours to be arranged.*

Professor EYCLESYMER

Haematology.—The blood and blood-forming organs in relation to cytological structure, histogenesis, functional correlations, and current haematological problems. *Hours to be arranged.*

Assistant Professor EMMEL

Courses Preparatory to Specialization

(Special fee)

- A. The Eye.
- B. The Ear.
- C. The Mouth, Nose, and Throat.
- D. The Thorax and Abdomen.
- E. The Genito-urinary System.
- F. Pelvic Anatomy.
- G. The Extremities, especially the joints and their mechanism.
- H. The Brain and Spinal Cord.

Research.—Physicians who desire to do research and students who have had three years of university training are invited to begin research work in this department. A reading knowledge of French and German is essential.

Seminar.—Critical reviews of recent literature; bibliographies; preparation of scientific papers for publication. Presentation and discussion of the results of investigations.

Courses for Graduates

101. **Histogenesis.**—The structural changes in tissues and their elements, which are directly correlated with normal processes, such as growth, activity, rest, fatigue, senility. *One unit.*

Professor EYCLESYMER, Assistant Professor EMMEL, Dr. MOODIE

103. **Individual Research in Embryology and Histogenesis.**—*One or two units.*

Professor EYCLESYMER, Assistant Professor EMMEL, Dr. MOODIE

APPLIED AND SURGICAL ANATOMY

(See Department of Surgery.)

DERMATOLOGY

FREDERICK GILLETTE HARRIS, M.D., *Assistant Professor of Dermatology and Venereal Diseases and Acting Head of the Department*

PHILIP FRANK SHAFFNER, M.D., *Instructor*

Required Courses—Fourth Year

Dermatology.—Didactic, illustrated. 2; *I or II.*

Assistant Professor HARRIS

Clinical Dermatology.—Given in Cook County Hospital. 1; *I or II.*

Assistant Professor HARRIS

Clinical Dermatology.—Given in the dispensary. Clinics of one hour daily throughout the year. 3; *I, II (three weeks each semester).*

Assistant Professor HARRIS, Dr. SHAFFNER

Optional Courses

Syphilis.—Advanced clinical course, limited to six students.

Assistant Professor HARRIS

Pathology and Bacteriology of the Skin.—Limited to six students.

Dr. SHAFFNER

EXPERIMENTAL MEDICINE

DAVID JOHN DAVIS, B.S., M.D., Ph.D., *Professor and Director of the Laboratories*

JOSIAH J MOORE, M.S., M.D., *Associate, Experimental Medicine*

HARRY B CULVER, B.S., M.D., *Instructor, Experimental Medicine*

EFFIE L MACDONALD, A.B., *Technician*

General Statement

The function of this department is to carry on research in medical problems, especially in clinical medicine, and to conduct the courses in clinical diagnosis and the laboratory work of the dispensary.

Required Course—Second Year

Clinical Pathology.—The microscopic, bacteriologic, and chemical examination of urine, blood, sputum, feces, stomach contents, exudates. 8; *one-half of I or II.*

Professor DAVIS, Dr. MOORE, Dr. CULVER

Required Course—Third and Fourth Years

Dispensary Laboratory.—Laboratory examinations in connection with clinical cases.

Dr. CULVER

Optional Courses

Advanced Special Laboratory Methods.—Limited to a few specially qualified students. Hours to be arranged. Dr. MOORE

Research.—Limited to qualified students. Professor DAVIS

HYGIENE AND MEDICAL JURISPRUDENCE

ADOLPH GEHRMANN, M.D., *Professor and Head of the Department of Hygiene*

ELMER DEWITT BROTHERS, M.S., LL.B., *Lecturer, Medical Jurisprudence*

MATTHEW MILLS, LL.B., *Alternate Lecturer, Medical Jurisprudence*

Required Course—Second Year

Public Hygiene.—General etiology, immunity, contagious diseases, epidemiology, and preventive medicine; organization of health departments and the work of divisions of the same; vital statistics; factory and school inspection; sanitation; municipal sanitation; public welfare. Lectures. 2; II.

Professor GEHRMANN.

Required Course—Third Year

Medical Jurisprudence.—Lectures: 1; I or II.

Mr. BROTHERS

Required Course—Fourth Year

Practical Hygiene.—Visits to public institutions. Laboratory and conferences: 8 three-hour periods; II.

Professor GEHRMANN

MEDICINE

CHARLES SPENCER WILLIAMSON, B.S., M.D., *Professor, and Head of the Department*

Division of Internal Medicine

CHARLES SPENCER WILLIAMSON, B.S., M.D., *Professor of Medicine*

MAURICE LOUIS GOODKIND, M.D., *Professor, Clinical Medicine*

JOSEPH MCINTYRE PATTON, M.D., *Professor, Clinical Medicine*

FREDERICK TICE, M.D., *Professor, Diseases of the Chest and Clinical Medicine*

JOHN WEATHERSON, C.E., M.D., *Assistant Professor, Medicine*

MAURICE LEWISON, M.D., *Assistant Professor, Physical Diagnosis*

EDWARD LOUIS HEINTZ, Ph.G., M.D., *Assistant Professor, Medicine and Clinical Medicine*

ROBERT MOSSER, Ph.G., M.D., *Associate, Clinical Medicine*

ERNEST SISSON MOORE, Ph.B., M.D., *Associate, Clinical Medicine*

GEORGE J LORCH, Ph.G., M.D., *Instructor, Medicine*

ROBERT WILLIAM MORRIS, A.B., M.D., *Instructor, Medicine*

WALDEMAR EBERHARDT, B.S., M.D., *Instructor, Medicine*

FRANK CHAUVET, M.D., *Instructor, Physical Diagnosis*

WALTER BRADFORD METCALF, M.D., *Instructor, Clinical Medicine*

EDWARD F FOX, M.D., *Instructor, Medicine*

SOLOMON STROUSE, A.B., M.D., *Instructor, Clinical Medicine*

LOUIS RUDOLPH, M.D., *Instructor, Physical Diagnosis*

F RAYMOND CROOKS, M.D., *Instructor, Medicine*

FRANKLIN S WILSON, M.D., *Instructor, Clinical Medicine*

PHILIP M DALE, M.D., *Instructor, Clinical Medicine*

LAURENCE H MOYERS, A.M., M.D., *Instructor, Medicine*

FRANK J JIRKA, M.D., *Assistant, Physical Diagnosis*

Required Course—Second Year

Physical Diagnosis.—(a) Lectures. 1; *II*.

(b) Practical drill on normal subjects. 1 two-hour period; *II*.

Assistant Professor LEWISON, Dr. CHAUVET, Dr. RUDOLPH

Required Courses—Third Year

Practise of Medicine.—Infectious diseases, except tuberculosis; intoxications; diseases of metabolism and of the ductless glands. Conferences; recitations. 4; *I, II*.

Assistant Professor HEINTZ, Dr. LORCH, Dr. CROOKS

Medical Clinic.—Selected topics—in the amphitheater of the Cook County Hospital. 1 two-hour period; *I or II*. Professor WILLIAMSON

Medical Clinic.—Material from the University Hospital dispensary. 1 two-hour period; *I or II*. Assistant Professor HEINTZ

Physical Diagnosis Clinic.—Given to small groups, using the patients in the tuberculosis wards of the Cook County Hospital. 1; *I*.

Assistant Professor LEWISON, Dr. CHAUVET

Medical Dispensary.—Practical work on out-patients. Practically every disease of an ambulatory nature found in the temperate zone may be seen here. 3 two-hour periods; *I, II (three weeks.)*

Dr. MOSSER, Dr. MOORE, Dr. METCALF, Dr. WILSON, Dr. DALE

Required Courses—Fourth Year

Practise of Medicine.—Diseases of the alimentary tract, liver, pancreas, peritoneum, heart, and lungs. The kidneys and the blood; review of selected subjects. Lectures illustrated by pathological specimens, charts, and lantern slides; conferences. 6; *I—3; II*.

Lectures, Professor WILLIAMSON and Professor TICE; Conferences, Assistant Professor WEATHERSON, Dr. MORRIS, Dr. EBERHARDT, Dr. FOX.

Medical Clinic.—Gastro-intestinal, cardio-vascular, and renal diseases; methods of diagnostic analysis. Collateral reading. 1 two-hour period; *I or II*.

Professor WILLIAMSON

Medical Clinic.—Given in the amphitheater of the Cook County Hospital. 1 two-hour period; *I or II*. Professor PATTON

Medical Clinic.—Given in the amphitheater of the Cook County Hospital. 1 two-hour period; *I or II*. Professor TICE

Group Clinic.—Given at the Michael Reese Hospital. Four one-hour periods each group. Professor GOODKIND

Medical Seminar.—Work in cooperation with the departments of surgery and obstetrics. The student receives 48 hours' credit, 16 in each department, altho the work done is in one department only. During the first semester, the groups meet informally, and abstracts are prepared and submitted for criticism. During the second semester, each group is assigned one hour in which to present its work before the entire class.

Professor WILLIAMSON and assistants

Optional Course

Seminar in the Classics of Medicine.—Given if a minimum number of four students apply; more than eight can not be admitted. *Hours to be arranged.*

Professor WILLIAMSON

Division of Pediatrics

JULIUS HAYS HESS, M.D., *Associate Professor, Pediatrics and Clinical Pediatrics, Head of the Division*

EMANUEL OLIVER BENSON, A.B., M.D., *Assistant Professor, Pediatrics and Clinical Pediatrics*

HENRY EUGENE IRISH, M.D., *Instructor*

MAURICE L BLATT, M.D., *Instructor*

JACOB CARL KRAFFT, M.D., *Instructor*

JOSEPH SAMUEL COHN, M.D., *Instructor*

ABRAHAM LEVINSON, M.D., *Instructor*

LESTER EDWARD BOWER, M.D., *Instructor*

General Statement

The work in pediatrics is given in the third and fourth years. So far as possible, individual instruction is given, the class being divided into small groups for clinical work.

Required Courses—Third Year

Pediatrics.—Nutrition and nutritional disturbances in infancy. Lectures in clinical conferences. 1; *I*. Associate Professor HESS

Pediatrics.—Recitations. 1; *II*.

Dr. IRISH, Dr. ARMSTRONG, Dr. LEVINSON, Dr. COHN

Pediatric Clinic.—Physical diagnosis and demonstration of cases. 1; *I* or *II*.

Assistant Professor BENSON

Required Courses—Fourth Year

Section Conference.—Michael Reese Hospital. 1 hour a week for four weeks.

Associate Professor HESS

Section Conference.—University Hospital. 1 hour a week for four weeks.

Dr. IRISH

Section Conference.—Contagious diseases. Cook County Hospital. 1 hour a week for four weeks.

Dr. ARMSTRONG

Dispensary.—Three two-hour periods for three weeks each semester.

Dr. BLATT, Dr. COHN, Dr. KRAFFT, Dr. LEVINSON, Dr. BOWER

Pediatric Clinic.—Cook County Hospital. 1 two-hour period; *I* or *II*.

Associate Professor HESS

Division of Neurology

LEE HARRISON METTLER, A.M., M.D., *Professor, Neurology and Clinical Neurology, Head of the Division*

ISADOR BERNARD DIAMOND, M.D., *Instructor*

CARL J S RYDIN, M.D., *Instructor*

EDWIN FRANKLIN LEONARD, M.D., *Instructor*

Required Courses—Fourth Year

Neurology.—Clinico-didactic lectures; recitations. 2; *I, II*.

Professor METTLER, Dr. DIAMOND, Dr. LEONARD, Dr. RYDIN

Clinical Neurology.—Dispensary instruction. 3 two-hour periods, three weeks; *I, II*.

Dr. DIAMOND, Dr. RYDIN, Dr. LEONARD

Optional Courses

Special lectures in neuropathology, electrotherapeutics, or other related subjects. 4 one-hour periods. Professor METTLER

Division of Psychiatry

HAIM I DAVIS, M.D., *Assistant Professor, Clinical Psychiatry, Head of the Division*

Required Courses—Fourth Year

Psychiatry.—Lectures and quizzes. 1; *II, eight weeks.*

Assistant Professor DAVIS

Clinical Psychiatry.—Given in the Psychopathic Hospital of Cook County. 1, sixteen weeks; *I, II.*

Assistant Professor DAVIS

Division of Roentgenology

ADOLPH HARTUNG, M.D., *Instructor*

Required Course—Fourth Year

Roentgenology.—Conferences and demonstrations. 4 one-hour periods.

Dr. HARTUNG

Division of History of Medicine

BERNARD JOHN CIGRAND, M.S., D.D.S., *Lecturer*

Optional Course—Fourth Year

History of Medicine.—Lectures. 1; *I or II.*

OBSTETRICS AND GYNECOLOGY

CHARLES SUMNER BACON, Ph.B., M.D., *Professor of Obstetrics, Head of the Department*

Division of Obstetrics

CHARLES SUMNER BACON, Ph.B., M.D., *Professor, Obstetrics and Clinical Obstetrics*

RACHELLE S YARROS, M.D., *Associate Professor, Obstetrics and Clinical Obstetrics*

CECIL VON BACHELLE, M.S., M.D., *Assistant Professor, Obstetrics*

OTTO HERMAN ROHRLACK, Ph.G., M.D., *Assistant Professor, Obstetrics and Clinical Obstetrics*

ANNIE ESTHER BARRON-HARRISON, M.D., *Instructor*

RICHARD CHARLES STEFFAN, M.D., *Instructor*

JOHN WILLIAM BIRK, M.D., *Instructor*

CHARLES NEWBERGER, B.S., M.D., *Instructor*

WALTER CHARLES HAMMOND, M.D., *Instructor*

EDWARD MARTIN HEACOCK, M.D., *Instructor*

FREDERICK HOWARD FALLS, M.S., M.D., *Research Fellow and Instructor*

General Statement

The equipment of this department consists of manikins, demonstration pelves, malformed pelves, and other pathological specimens, charts, obstetrical instruments, and prepared fetuses. The histology and pathology is given in connection with the department of experimental medicine.

Required Courses—Third Year

Anatomy and Histology of the Obstetrical Passages and Passenger.—4 periods of two hours each. Dr. FALLS

Physiology of Pregnancy, Labor, the Puerperium, and the New Born Infant.—Lectures; recitations. 2; *I, II*.

Associate Professor YARROS, Dr. BIRK, Dr. NEWBERGER, Dr. HEACOCK, Dr. HAMMOND, Dr. FALLS

Bedside and Dispensary Clinic.—University Hospital, 12 one-hour periods.

Professor BACON, Assistant Professor ROHRLACK, Dr. BARRON-HARRISON, Dr. FALLS

Parturition Clinic.—University Hospital. Six cases.

Required Courses—Fourth Year

Pathological Anatomy and Histology.—Laboratory. 2 to 4 two-hour periods in combination with the course on the pathology of the genital tract. (See division of gynecology.) Dr. FALLS

Pathology of Pregnancy, Labor, and the Puerperium.—Lectures; recitations. 48 hours in one-hour and two-hour periods.

Professor BACON, Assistant Professor ROHRLACK, Dr. BIRK, Dr. NEWBERGER, Dr. HEACOCK, Dr. HAMMOND, Dr. FALLS.

Manikin Work.—8 two-hour periods.

Assistant Professor BACHELLE, Dr. STEFFEN

Bedside and Dispensary Clinic.—Given at the University Hospital. 12 one-hour periods.

Professor BACON, Assistant Professor ROHRLACK, Dr. BARRON-HARRISON, Dr. FALLS

Amphitheater Clinic.—Given at the University Hospital. 1; *I, II*.

Professor BACON

Parturition Clinic.—Given at the University Hospital. Six cases.

Chicago Lying-In Hospital and Dispensary.—Residence, two weeks; at least six cases. (Fee, \$15.)

Obstetrical Seminar.—Work in cooperation with the departments of medicine and surgery. For this work the student receives 48 hours credit, 16 in each department, altho the work is in one department only. During the first semester, the groups meet informally, and abstracts are prepared and submitted for criticism. During the second semester each group is assigned one hour in which to present its work before the class.

Professor BACON and assistants

Optional Course

Obstetrical Pathology.—Third or fourth year.

Division of Gynecology

CHANNING WHITNEY BARRETT, M.D., *Professor, Gynecology and Clinical Gynecology, Head of the Division*

MARY GILRUTH McEWEN, B.S., M.D., *Assistant Professor, Clinical Gynecology*

JOHN MICHAEL LANG, M.D., *Assistant Professor, Clinical Gynecology*

EGAN WALTER FISCHMAN, M.D., *Instructor*
 WESLEY JOHN WOOLSTON, M.D., *Instructor*
 ALBERT JOHN SCHOENBERG, M.D., *Instructor*
 FRANK LEE STONE, M.D., *Assistant*
 MATHILDA OSBORNE LICHNER, B.S., M.D., *Assistant*

Required Courses—Fourth Year

Gynecology.—Recitations; lantern slide demonstrations; exhibition of fresh and preserved pathologic tissue; illustrations by charts and models. An occasional hour is devoted to operative work. 2; *I*.

Professor BARRETT, Dr. McEWEN, Dr. LANG, Dr. FISCHMANN, Dr. WOOLSTON, Dr. SCHOENBERG, Dr. STONE

Diagnostic and Operative Clinic.—Cook County Hospital. Diagnosis, prognosis, and treatment of typical and atypical cases. Cases preliminary to operation; post-operative progress; pathologic tissues. 1 two-hour period; *I* or *II*.

Professor BARRETT

Diagnostic and Operative Clinic.—The College Amphitheater or West Side Hospital. Material from the College and Marcy Center dispensaries is available for bedside study of the post-operative course. 1 two-hour period, 8 weeks; *I*, *II*.

Professor BARRETT, Assistant Professor McEWEN, Assistant Professor LANG

Dispensary Clinics.—College and Marcy Center dispensaries. Examinations; study of cases; written reports. 3, three weeks; *I*, *II*.

Assistant Professor LANG, Dr. FISCHMANN, Dr. WOOLSTON, Dr. STONE, Dr. LICHNER

Gross and Microscopic Study of Pathology of the Genital Tract.—Gross and microscopical specimens; conferences. 2 to 4 two-hour periods, in combination with the course on pathological anatomy and histology. (See division of obstetrics.)

Dr. FISCHMANN, Dr. STONE

Optional Course

Gynecologic Pathology.—Special courses for students of demonstrated proficiency. Special investigation.

Professor BARRETT and assistants

OPHTHALMOLOGY

CASEY ALBERT WOOD, D.C.L., C.M., M.D., *Professor, Ophthalmology, Head of the Department*

WILLIAM ELLIOTT GAMBLE, B.S., M.D., *Associate Professor, Clinical Ophthalmology*

JONATHAN BROWN LORING, M.D., *Assistant Professor, Clinical Ophthalmology*

EPHRAIM KIRKPATRICK FINDLAY, M.D., *Assistant Professor, Clinical Ophthalmology*

FREDERICK DOUGLAS VREELAND, M.D., *Instructor*

WILLIAM BUTLER WEST, M.D., *Instructor*

GEORGE WILLIAM WOODNICK, M.D., *Instructor, Clinical Ophthalmology*

HELEN CARNCROSS, M.D., *Instructor, Clinical Ophthalmology*

EDWARD F SLAVIK, M.D., *Assistant, Clinical Ophthalmology*

LAWRENCE WELLS WHITMER, M.D., *Assistant*

LOUIS HOFFMAN, M.D., *Assistant*

Required Courses—Fourth Year

Didactic Ophthalmology.—Lectures; dispensary teaching; clinical lectures in the hospital. Meetings of the Journal Club. 1, twelve weeks; *I*.

Professor WOOD

Clinical Ophthalmology.—The common diseases of the eye; minor operations the general practitioner may be expected to perform. 1; *I* or *II*.

Professor WOOD, Associate Professor GAMBLE, and assistants

Dispensary Instruction.—Diagnosis and treatment of the commoner diseases of the eye. 3 two-hour periods, three weeks, *I*, *II*. Professor WOOD, Assistant Professor LORING, Assistant Professor FINDLAY, and assistants.

Optional Courses

Properly qualified students can arrange for special or advanced work in ophthalmology by applying to Professor Wood.

PATHOLOGY AND BACTERIOLOGY

DAVID JOHN DAVIS, B.S., M.D., Ph.D., *Acting Professor of Pathology, Acting Head of the Department*

WILLIAM H BURMEISTER, A.B., M.D., *Assistant Professor, Pathology*

JOHN JOSIAH MOORE, M.S., M.D., *Associate, Experimental Medicine*

THOMAS HARRIS BOUGHTON, M.S., M.D., *Instructor*

FREDERICK HOWARD FALLS, M.S., M.D., *Instructor*

AMY WEEDON, *Technician, Pathology*

ESTHER VOSS, *Technician, Bacteriology*

Required Course—Second Year

General Pathology and Pathological Histology.—General pathology; gross and microscopic study of fresh and preserved pathological material. Lectures; recitations; demonstrations. 2; *one and one-half semesters*; laboratory work, 3 two-hour periods, *one and one-half semesters*.

Assistant Professor BURMEISTER, Dr. BOUGHTON

Required Course—Third Year

Special Pathology.—Gross and microscopic examination of organs; post-mortem bacteriology; experimental pathology. The work is closely correlated with post-mortem examination (see autopsies) and also with clinical pathology. 2 two-hour periods; *II*.

Professor DAVIS and assistants

Autopsies.—Cook County Hospital. Third-year students are required to attend 16 autopsies. 1 two-hour period; *II*.

Optional Courses

Advanced Laboratory and Research.—Open to a limited number of qualified students. *Hours to be arranged.*

Assistant Professor BURMEISTER

Diagnosis of Tumors.—Open to students who have had courses in general and special pathology. *I. Hours to be arranged.*

Dr. BOUGHTON

Division of Bacteriology

Required Course—Second Year

General Bacteriology and Protozoology.—Pathogenic bacteria and protozoa; immunity. Lectures and demonstrations, 3; laboratory, 6; *I*.

Professor DAVIS, Dr. MOORE

Optional Course

Advanced Work and Research.—Limited to qualified students. *Hours to be arranged.* Professor DAVIS

Courses for Graduates

101. **Advanced Pathogenesis.**—Etiology and pathogenesis of certain diseases; lower animals in the transmission of human disease. *One unit.* Professor DAVIS
 105. **Individual Research.**—*One or two units.* Professor DAVIS

PHARMACOLOGY AND THERAPEUTICS

BERNARD FANTUS, M.D., *Professor, Pharmacology and Therapeutics*
 ALFRED OGLE SHAKLEE,¹ B.S., M.D., *Assistant Professor, Pharmacology*
 WALTER EDWARD SIMMONDS, M.D., *Instructor, Physical Therapy*
 HOWARD S BROWNE, A.B., Ph.C., M.S., *Assistant Pharmacology*
 LADISLAW STOLFA, M.D., *Assistant, Therapeutics*
 EMMY G HYATT, *Student Assistant, Pharmacology*
 FLORENCE L RUMREY, *Typist and Technician, Pharmacology*
 SHUNKEN TOMINAGA, *Technician, Pharmacology*

Required Courses—Second Year

Elementary Prescription-Writing and Pharmacy.—Each student prepares typical specimens of each of the more important classes of pharmaceutical preparations, and practises prescribing them. 1; *I.* Professor FANTUS, Mr. BROWNE

Systematic Pharmacology.—Important drugs with predominant local action. Lectures and recitations, 2; *II.* Laboratory, 1 two-hour period; *II.*

Professor FANTUS, Mr. BROWNE

Non-Pharmaceutical Therapeutics.—Remedial measures other than drugs: psychotherapy, mechanotherapy, hydrotherapy, electrotherapy, radiotherapy, climatotherapy, dietetics. Laboratory in mechanotherapy and hydrotherapy; practise with electrotherapeutic apparatus. Lectures and recitations, 3; *II.* Laboratory, 1; *II.*

Professor FANTUS, Dr. SIMMONDS, Dr. STOLFA

Required Courses—Third Year

Systematic Pharmacology.—Important drugs with predominant systemic action. Lectures and recitations, 2; *I.* Laboratory, 1 three-hour period; *I.*

Professor FANTUS

General Therapeutics.—Remedial measures: diuresis, diaphoresis, catharsis, antipyresis, analgesia, anesthesia, hypnosis, antiseptics. Prescription-writing for hypothetical cases. Lectures; recitations, 2; *II.*

Professor FANTUS

Optional Courses

Advanced Prescription-Writing and Compounding.—Prescription and compounding of important remedies: pleasantness of medication; avoidance of incompatibilities. (Recommended to students of the second year who have completed the course in elementary prescription writing.) Laboratory. 1; *II.*

Professor FANTUS

¹ Resigned, September 30, 1916; gave courses 101 and 103 in the summer session of 1916.

Dietetics.—Hygienic and therapeutic relations of foods. (Recommended to students of the third and fourth years.) Lectures, demonstrations; 1; *I*.

Professor FANTUS

Hydrotherapy and Massage.—The technic and practical application. (A limited number of students of third and fourth year may be admitted to this course.)

Dr. SIMMONDS

Special Experimental Pharmacodynamics.—Open to a limited number of qualified students of the third or fourth year. Three hours laboratory a week.

Professor FANTUS, Mr. BROWNE

Biologic Drug Assay.—The valuation of the activity of drugs that cannot be assayed by chemical methods. Three hours laboratory a week.

Professor FANTUS, Mr. BROWNE

Research.—Qualified students may do research laboratory work under direction of members of the staff.

Seminar.—Discussion of current pharmacologic and therapeutic literature and the results of research work in progress.

Courses for Graduates—Summer Session

101. **Advanced Pharmacodynamics.**—Laboratory work. *One unit.*

Assistant Professor SHAKLEE

103. **Research in Pharmacodynamics.**—*One or two units.*

Assistant Professor SHAKLEE

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

GEORGE PETER DREYER, A.B., Ph.D., *Professor, Physiology and Physiological Chemistry, Head of the Department*

WILLIAM HENRY WELKER, A.C., Ph.D., *Assistant Professor, Physiological Chemistry*

ALFRED ERWIN LIVINSTON, Ph.D., *Associate, Physiology*

ROY GENTRY PEARCE,¹ A.B., M.D., *Assistant Professor, Physiology*

CLAYTON S SMITH, M.S., Ph.D., *Instructor, Physiological Chemistry*

HARRY HENRY STRAUCH, B.S., *Assistant, Physiological Chemistry*

J CRAIG SMALL, B.S., *Student Assistant, Physiological Chemistry*

HOWARD E CURL, A.B., *Student Assistant, Physiology*

ALBERT CHARLES D'VORAK, B.S., *Student Assistant, Physiological Chemistry*

PHILIPP A OHLSON, *Technician, Chemistry*

JAMES S GROOT, *Technician, Physiology*

DIVISION OF PHYSIOLOGY

Required Course—First Year

Physiology.—Blood, lymph; muscle, nerve; circulation; respiration. Lectures, recitations, demonstrations, 3; laboratory, 2 three-hour periods; *II*.

Professor DREYER and assistants

Required Course—Second Year

Physiology.—Digestion; secretion; metabolism; the special senses; the central nervous system. Lectures, recitations, demonstrations, 4; laboratory, 4; *I*.

Professor DREYER and assistants

¹Resigned, September 30, 1916; gave courses 101 and 105 in the Summer Session of 1916.

Optional Courses

Advanced Laboratory.—Qualified students may take an optional course, consisting of a series of exercises introducing the graphic methods of physiological demonstration and research, and varying in kind and amount according to individual needs.

Journal Club and Seminar.—Reports; special topics.

Division of Chemistry

Required Courses—First Year

Organic Chemistry.—Biological chemistry; fats; proteins; carbohydrates. Lectures; demonstrations; conferences, 2; *I*. Laboratory, 2 three-hour periods; *I*.

Dr. SMITH, Mr. STRAUCH, Mr. SMALL

Physiological Chemistry and Toxicology.—Lectures; demonstrations; conferences, 2; *II*. Laboratory, 2 three-hour periods; *II*.

Assistant Professor WELKER, Dr. SMITH, Mr. STRAUCH, Mr. SMALL

Prerequisite: A course in organic chemistry as outlined above.

Optional Courses

Prerequisite: The required courses in organic and physiological chemistry.

Quantitative Urinary Analysis.—Lectures, 1; laboratory, 6.

Assistant Professor WELKER, Dr. SMITH

Sanitary Chemistry.—Water and sewage analysis; purification. Lecture, 1; laboratory, 6.

Assistant Professor WELKER

Food Analysis.—Composition; adulteration; preservation. Lecture, 1; laboratory, 6.

Dr. SMITH

Research.—Open to persons with the requisite scientific training for original investigation under the direction of a member of the staff.

Seminar.—Discussion of results of recent work in chemical biology. 1; *I*, *II*.

Courses for Graduates

103. Advanced Biological Chemistry.—Biochemical methods of research; biological colloids; enzyme action; metabolism. *One or two units.*

Assistant Professor WELKER

107. Biochemical Research.—*One or two units.*

Assistant Professor WELKER

Courses for Graduates—Summer Session

101. Advanced Physiology.—Experimental physiology. Laboratory. *One or two units.*

Assistant Professor PEARCE

105. Research in Physiology.—*One or two units.*

Assistant Professor PEARCE

SURGERY

DANIEL ATKINSON KING STEELE, M.D., LL.D., *Professor, Head of the Department*

Division of General Surgery

DANIEL ATKINSON KING STEELE, M.D., LL.D., *Professor, Surgery and Clinical Surgery*

DANIEL NATHAN EISENDRATH, A.B., M.D., *Professor, Surgery and Clinical Surgery*
 ALBERT JOHN OCHSNER, B.S., M.D., *Professor, Surgery and Clinical Surgery*
 CHARLES DAVISON, M.D., *Professor, Surgery and Clinical Surgery*
 ALBERT EDWARD HALSTEAD, M.D., *Professor, Surgery and Clinical Surgery*
 CHARLES EDWARD HUMISTON, M.D., *Associate Professor, Clinical Surgery*
 NELSON MORTIMER PERCY, M.D., *Associate Professor, Clinical Surgery*
 GEORGE FARNSWORTH THOMPSON, B.S., M.D., *Assistant Professor, Surgery and Clinical Surgery*
 FREDERICK GEORGE DYAS, M.D., *Assistant Professor, Surgery and Clinical Surgery*
 FRANK DONALD MOORE, M.D., *Assistant Professor, Surgery and Clinical Surgery*
 JOHN ROSS HARGER, B.S., M.D., *Associate, Surgery and Minor Surgery*
 VICTOR L SCHRAGER, M.D., *Associate, Surgery*
 CHARLES HERBERT PHIFER, M.D., *Instructor, Surgery*
 HENRY LESTER BAKER, M.D., *Instructor, Surgery*
 GEORGE LUTHER DAVENPORT, M.D., *Instructor, Surgery*
 ARRIE BAMBERGER, M.D., *Instructor, Surgery and Minor Surgery*
 RAYMOND WILLIAM MCNEALY, M.D., *Instructor, Surgery*
 OSCAR EUGENE NADEAU, B.S., M.D., *Instructor, Surgery (Surgical Pathology)*
 GEORGE WASHINGTON POST, A.M., M.D., *Assistant, Clinical Surgery*
 CHARLES C. CLARK, M.D., *Assistant, Clinical Surgery*
 ROBERT EMMET FLANNERY, M.D., *Assistant, Clinical Surgery*
 MAX MEYEROVITZ, M.D., *Assistant, Clinical Surgery*
 CARL ALBERT MEYER, M.D., *Assistant, Clinical Surgery*
 LYNDON HARRIS, M.D., *Assistant, Clinical Surgery*

Required Courses—Third Year

Surgery and Surgical Pathology.—Conferences; recitations. 2; *I, II.*

Assistant Professor MOORE, Assistant Professor DYAS, Assistant Professor THOMPSON, Dr. HARGER

Clinical Surgery.—University Dispensary. Bandaging; dressings; surgical appliances. 3 two-hour periods, three weeks; *I, II.*

Dr. HARGER, Dr. BAMBERGER, Dr. POST

Clinical Surgery.—Cook County Hospital. 2; *I or II.*

Assistant Professor THOMPSON

Clinical Surgery.—Cook County Hospital, 2; *I or II.*

Associate Professor HUMISTON

Anesthetics.—Conferences; demonstrations. 4 one-hour periods.

Dr. MEYER

Required Courses—Fourth Year

Practise of Surgery.—Lectures (See calendar below.) 1; *I, II.* Quiz: 1; *I, II.*

Dr. PHIFER, Dr. DAVENPORT, Dr. MCNEALY, Dr. BAKER

October

Surgery of the Head and Neck—Professor HALSTEAD

November

Surgery of the Thorax.—Professor HALSTEAD

December

Surgery of the Stomach.—Professor EISENDRATH

January

Surgery of the Duodenum and Intestines.—Professor EISENDRATH

February

Hernia and Post-Operative Treatment.—Professor STEELE

March

Surgery of the Liver, Pancreas, and Spleen.—Professor OCHSNER

April

Surgical Diseases and Injuries of the Bones.—Professor DAVISON

May

Surgery of the Genito-Urinary Tract.—Assistant Professor CARY

Clinical Surgery.—University Hospital. 1 two-hour period; 8 weeks.

Professor STEELE, Dr. BAKER, Dr. SCHRAGER, Dr. CLARK

Clinical Surgery.—University Hospital. 1 two-hour period; 8 weeks.

Professor DAVISON, Assistant Professor MOORE, Dr. MEYEROVITZ

Clinical Surgery.—Cook County Hospital. 1 two-hour period; 8 weeks.

Professor DAVISON

Clinical Surgery.—Cook County Hospital. 1 two-hour period; I or II.

Professor EISENDRATH

Clinical Surgery.—Cook County Hospital. 1 two-hour period; I or II.

Assistant Professor DYAS

Clinical Surgery.—College. 1 two-hour period; I or II.

Associate Professor PERCY, Dr. POST, Dr. FLANNERY

Clinical Surgery.—St. Luke's Hospital. 4 two-hour periods.

Professor HALSTEAD

Clinical Surgery.—Augustana Hospital. 4 two-hour periods.

Professor OCHSNER, Associate Professor PERCY, Dr. FLANNERY

Surgical Pathology.—Laboratory. 1 two-hour period; 8 weeks.

Dr. NADEAU and assistant

Surgical Seminar.—Work in cooperation with the departments of medicine and obstetrics. For this work the student receives 48 hours credit, 16 in each department, altho this work is in one department only. During the first semester, the groups meet informally and abstracts are prepared and submitted for criticism. During the second semester, each group is assigned one hour in which to present its work before the class.

Professor STEELE and assistants

Division of Orthopedic Surgery

JOHN LINCOLN PORTER, M.D., *Professor, Orthopedic Surgery, Head of the Division*

CHARLES MAYER JACOBS, M.D., *Associate Professor, Clinical Surgery (Orthopedic)*

DAVID ALEXANDER, M.D., *Instructor*

WILLIAM ARTHUR CLARKE, M.D., *Assistant*

Required Courses—Third Year

Orthopedic Surgery.—Lectures. 1; *I*. Professor PORTER

Clinical Orthopedic Surgery.—College amphitheater. 1; *I or II*.
Professor PORTER

Clinical Orthopedic Surgery.—Cook County Hospital. 1; *I or II*.
Associate Professor JACOBS

Dispensary.—3 two-hour periods; *three weeks, I, II*.
Dr. ALEXANDER. Dr. CLARKE

Required Course—Fourth Year

Clinical Orthopedic Surgery.—St. Luke's Hospital. 4 two-hour periods.
Professor PORTER

Division of Genito-Urinary Surgery

GEORGE FRENCH STROTHER CARY, M.D., *Assistant Professor*

CHARLES MORGAN MCKENNA, M.D., *Instructor*

HARRY JEROME SMEJKAL, M.D., *Instructor*

JOHN PATRICK O'NEIL, M.D., *Instructor*

Required Courses—Third Year

Genito-Urinary and Venereal Diseases.—Lectures. 1; *I*.
Assistant Professor CARY

Genito-Urinary and Venereal Diseases.—University Dispensary. Clinics;
conferences. 3 two-hour periods; *three weeks, I, II*.

Assistant Professor CARY, Dr. MCKENNA, Dr. SMEJKAL, Dr. O'NEIL

Required Course—Fourth Year

Clinical Surgery (Genito-Urinary).—College amphitheater. 2; *8 weeks*.
Assistant Professor CARY, Dr. MCKENNA, Dr. SMEJKAL, Dr. O'NEIL

Division of Operative Surgery

ARCHIE JAMES GRAHAM, B.S., M.D., *Instructor*

Required Course—Second Year

Operative Surgery.—Operations on the cadaver and on animals. 2; *II*.
Dr. GRAHAM

Division of Laryngology, Rhinology, and Otology

NORVAL H PIERCE, M.D., *Professor, Surgery (Laryngology, Rhinology, and Otology),
Head of the Division*

JOSEPH C BECK, M.D., *Associate Professor, Surgery (Laryngology, Rhinology, and
Otology)*

JOHN ALGERNON CAVANAUGH, M.D., *Associate, Surgery (Laryngology, Rhinology,
and Otology)*

EUGENE BIRMINGHAM, M.D., *Instructor, Surgery (Laryngology, Rhinology, and
Otology)*

EDWARD F GARRAGHAN, M.D., *Instructor, Surgery (Laryngology, Rhinology, and
Otology)*

Required Courses—Third Year

Otology.—Surgical anatomy, physiology, and pathology of the ear. Lectures. 1; six weeks, *II*. Professor PIERCE

Clinical Surgery (Otology.)—Illinois Eye and Ear Infirmary. 4 one-hour periods; *II*. Professor PIERCE

Laryngology and Rhinology.—The diseases of the throat and nose. Lectures. 1; *I*. Associate Professor BECK

Laryngology and Rhinology.—College amphitheater. 1; *I or II*. Associate Professor BECK, Dr. CAVANAUGH

Laryngology and Rhinology.—University Dispensary. 3 one-hour periods; three weeks, *I, II*.

Associate Professor BECK, Dr. CAVANAUGH, Dr. BERMINGHAM, Dr. GARRAGHAN

Optional Course

Clinical Laryngology and Rhinology.—Cook County Hospital. 1. Associate Professor BECK

SUMMARY OF HOURS

First Year

Subjects	First Semester		Second Semester		Total
	Didactic	Laboratory	Didactic	Laboratory	
Anatomy:					
Gross.....	32	112	32	112	288
Microscopic.....	32	160	32	64	288
Chemistry:					
Organic.....	32	96	..	..	128
Physiological.....	..	..	32	96	128
Physiology.....	..	..	48	96	144
<i>Total</i>	96	368	144	368	976

Second Year

Subjects	First Semester		Second Semester		Total
	Didactic	Laboratory	Didactic	Laboratory	
Anatomy,					
Topographical.....	32	96	..	..	128
Bacteriology.....	48	96	..	..	144
Hygiene.....	..	..	32	..	32
Laboratory Diagnosis.....	..	..	..	64	64
Non-Pharmaceutical Therapeutics.....	..	..	48	16	64
Pharmacology.....	..	..	32	32	64
Prescription Writing and Pharmacy.....	..	16	..	..	16
Pathology.....	32	96	16	48	192
Physical Diagnosis.....	..	..	16	32	48
Physiology.....	32	96	..	..	128
Surgery (Operative).....	..	..	..	32	32
<i>Total</i>	144	400	144	224	912

Third Year

Subjects	Didactic	First Semester		Second Semester			Total
		Clinical	Dispensary	Didactic	Clinical	Dispensary	
Autopsies.....	..	..	..	..	32	..	32
Laryngology and Rhinology.....	16	16	9	..	..	9	50
Internal Medicine.....	64	40	18	64	40	18	244
Medical Jurisprudence.....	..	..	..	16	..	..	16
Pathology.....	..	..	..	..	64	..	64
Pediatrics.....	16	..	..	16	16	..	48
Pharmacology and Therapeutics.....	32	48	..	32	..	..	112
Obstetrics.....	32	..	..	32	20	..	84
Otology.....	..	..	..	6	4	..	10
General Surgery.....	32	32	18	32	36	18	168
Orthopedic Surgery.....	16	16	18	..	16	18	84
Genito-Urinary Surgery ...	16	..	18	..	..	18	52
<i>Total</i>	224	152	81	198	228	81	964

Fourth Year

Subjects	First Semester			Second Semester			Total
	Didactic	Clinical	Dispensary	Didactic	Clinical	Dispensary	
Dermatology.....	32	16	9	..	..	9	66
Genito-Urinary Surgery...	..	4	..	..	16	..	20
Gynecology.....	32	32	9	..	20	9	102
Hygiene ¹.....	..	..	..	..	24	..	24
Medicine.....	96	50	..	48	66	..	260
Neurology.....	16	16	18	16	16	18	100
Obstetrics.....	48	30	..	..	34	..	112
Ophthalmology.....	12	16	18	..	..	18	64
Pediatrics.....	..	32	18	..	12	18	80
Psychiatry.....	..	..	..	16	8	..	24
Roentgenology.....	..	..	..	..	4	..	4
General Surgery.....	32	80	..	32	96	..	240
Surgical Pathology.....	..	..	..	..	16	..	16
<i>Total</i>	268	276	72	112	312	72	1112
Grand total of hours for the four years.....							3964

FURTHER INFORMATION

For further information, including circular, address THE SECRETARY OF THE COLLEGE OF MEDICINE, CONGRESS AND HONORE STREETS, CHICAGO, ILLINOIS

¹ Not given in 1916-17.

THE COLLEGE OF DENTISTRY

(For the *faculty* of the College of Dentistry, see page 39; for a description of the *building*, see page 58).

LOCATION

The College is situated on the corner of Harrison and Honore streets in Chicago, opposite the Cook County Hospital, in the center of the clinical field of Chicago. On the west is the West Side Hospital, and on the north the College of Medicine of the University of Illinois.

PROSTHETIC LABORATORIES

The prosthetic laboratories are three in number, one for each class. They are equipped with new-model benches and each student is provided with two drawers, gas, compressed air, and electric light. Each laboratory is supplied with hot and cold water, electric lathes for grinding and polishing, moulding benches, furnaces, and casting devices.

INFIRMARY

The infirmary occupies the top floor. The equipment includes chairs of improved type, each chair furnished with an electric engine, electric light, compressed air, gas connection, and a stand for instrument case. A sterilizer is continuously in operation. There is a laboratory for prosthetic work, equipped with apparatus and tools for soldering, plate work, and polishing, and a laboratory for porcelain work with electric furnaces and porcelain ovens.

LIBRARY

The library is housed with the Quine Library of the College of Medicine in the medical building adjoining. Through the courtesy of Mrs. Margaret Cook, wife of the late Dr. George Washington Cook, former Dean of the College of Dentistry, his dental library, comprising two hundred volumes, besides unbound volumes of dental journals, has been given to the College. A dozen dental journals are received regularly. The library is open from 9 a. m. to 5 p. m. daily during the school year, with a librarian in attendance.

ADMISSION

An applicant for admission to the College of Dentistry must be at least 18 years of age. Women are admitted on the same terms as men.

Each candidate for admission must present a certificate of graduation from an accredited high school, or an equivalent; which equivalent is interpreted to mean *15 units¹ of preparatory work in an accredited high school or academy or a state normal school.*

No "conditions" can be permitted; the full 15 units must be offered.

The foregoing requirements may be satisfied either (a) *by certificate* or (b) *by examination.*

¹A unit is the amount of work represented by the pursuit of one high-school subject for one year of 36 weeks, with five forty-minute recitations each week, or the equivalent in laboratory or other practise.

Entrance credits will be accepted *by certificate* from the following sources:

- (1) From high schools and academies in the State of Illinois which are accredited to the University of Illinois.
- (2) From the state normal schools of Illinois and other state normal schools having equal requirements for graduation.
- (3) From schools accredited by the North Central Association of Colleges and Secondary Schools.
- (4) From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools.
- (5) From schools approved by the New England College Entrance Certificate Board.
- (6) From high schools and academies registered by the Regents of the University of the State of New York.

Entrance credits may be made *by examination*:

- (1) In the examinations conducted by the Registrar of the University of Illinois at the University in Urbana in January, July, and September of each year. For program, see pages 74-75.
- (2) In the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in the fall. In 1917 these examinations will be held on September 20-22.
- (3) In the examinations conducted in June of each year by the College Entrance Examination Board. See page 70.
- (4) In the examinations conducted by the Regents of the University of the State of New York.

Applicants for admission coming from institutions of higher learning, whether candidates for the freshman class or for advanced standing, must present entrance credentials or pass entrance examinations as indicated above.

The College of Dentistry will receive no student who is not present within 10 days after the opening day of the session in each year, or in case of necessary delay by reason of illness, properly certified by the attending physician, within 20 days after the opening day.

ADMISSION TO ADVANCED STANDING

Persons who can meet the requirements for admission to this college and who have studied dentistry in other schools for not less than one year may be admitted to advanced standing after satisfying the faculty that they have completed an amount of work equivalent to that which is required by this college in the respective classes.

Students who have had one or more years in the College of Medicine or in other medical colleges of equal rank, are allowed credit toward graduation for so much of the required curriculum in dentistry as was included in their medical curriculum. They must, however, be registered for full time. Graduates of the University of Illinois with degree of Bachelor of Arts or Bachelor of Science, who have taken courses in biology and chemistry in the University, can secure advanced standing in the curriculum in dentistry, provided they have done full work in the sciences required in the dental curriculum.

Graduates of recognized medical colleges may secure advanced credit for work and one year of time toward graduation, and are excused from lectures and examinations in general anatomy, chemistry, histology, pathology, and physiology, but are required to take lectures and examinations in dental subjects.

CURRICULUMS

1. Three-year curriculum. Students matriculating before October 14, 1916, may become candidates for the degree of Doctor of Dental Surgery after three full years of study.

2. Four-year curriculum. Optional in 1916-17. Required in 1917-18. The three-year course will not be offered after the session of 1916-17.

Students matriculating in 1916 are advised to take the four-year curriculum.

3. Combined curriculum in science and dentistry, leading to the degrees of Bachelor of Science and Doctor of Dental Surgery in six years. Full details of this curriculum will be furnished by the Registrar.

REQUIREMENTS FOR GRADUATION

The degree of Doctor of Dental Surgery will be conferred on students who have completed the curriculum, attended the required time, and passed satisfactory final examinations. To be eligible for the degree, the student must be twenty-one years of age, must possess a good moral character, and must have paid all fees.

The monthly report of attendance, and the standing of students in quizzes, recitations, laboratory work, and infirmary practise, both operative and prosthetic, are considered in making up the rating of final examinations.

LICENSE FOR PRACTISE IN ENGLAND

On the recommendation of the Board of Examiners in Dental Surgery, the Council of the Royal College of Surgeons, in London, has added the College of Dentistry of the University of Illinois to the list of dental schools recognized by the College. This recognition implies that the Royal College of Surgeons will exempt graduates in dental surgery of the University of Illinois from the preliminary science examination for the license in dental surgery, and will accept such parts of the curriculum for the license as are completed in the College of Dentistry of the University of Illinois toward the curriculum of study required for a license.

METHOD OF INSTRUCTION

Instruction is given by means of lectures, recitations, demonstrations, and laboratory work. The time of the student is about equally divided between laboratory and clinical work on the one hand and lectures and recitations on the other.

Students are admitted to the laboratories from the beginning of the first year. Laboratory work is closely correlated with lectures and clinical studies.

The teaching of one year is not repeated, and the curriculum is progressive, the several classes having separate laboratories and at no time taking lectures or demonstrations together.

In the clinical work, methods of investigation and reasoning are taught. Diagnosis, prognosis, and indications for treatment receive no less attention than methods of construction and the technics of procedure.

DESCRIPTION OF COURSES IN DENTISTRY

BACTERIOLOGY, PATHOLOGY, AND ORAL SURGERY

FREDERICK BROWN MOOREHEAD, Ph.D., D.D.S., M.D., *Professor, Oral Surgery, and Pathology, and Head of the Department*

DAVID JOHN DAVIS, B.S., M.D., *Professor of Pathology*

LOUIS SCHULTZ, D.D.S., M.D., *Assistant Professor, Oral Surgery and Pathology*

FRANK JOSEPH BERNARD, D.D.S., *Instructor, Extracting*

THOMAS HARRIS BOUGHTON, M.S., M.D., *Instructor, Bacteriology and Pathology*

KAETHE W DEWEY, M.D., *Research Pathologist*

EDWIN PAUL SWATEK, D.D.S., *Clinical Assistant in Oral Surgery*

ANNA BOLAN, R.N., *Nurse in Oral Surgery Clinic*

General Bacteriology.—Classification of bacteria, products of bacterial growth, and methods of observing, cultivating, isolating, and identifying bacteria; sterilization, disinfection, pathogenic bacteria in diseased conditions of the mouth; cultural and staining technic; dental caries, pathological conditions of first and second dentition, sensitive dentin, hyperemia and congestion, pulp nodules, putrescent pulps, acute and chronic alveolar abscesses, diseases of the peridental membrane, necrosis of hard and soft tissues. Lectures; recitations; demonstrations; laboratory work. 112-7; I; 2.¹

Professor DAVIS, Dr. BOUGHTON

General Pathology.—Circulatory disturbances, retrogressive and progressive processes, inflammation, tumors; pathology of important organs; blood and urine analysis; disease processes involving the teeth and buccal cavity. Lectures; recitations; demonstrations of fresh and preserved specimens; laboratory. 112-7; II; 2.

Professor DAVIS, Dr. BOUGHTON

Special Bacteriology and Pathology.—Relation of foci of infections in the mouth to constitutional diseases; the pulp and peridental membrane. Lectures; recitations; demonstrations; laboratory. 96-3; I, II; 3.

Professor MOOREHEAD, Assistant Professor SCHULTZ, and assistants

Oral Surgery.—Major operations performed in the clinic; diagnosis and treatment of minor lesions.

(a) *Lectures and recitations* on etiology, diagnosis, treatment, and local and general anesthetics. 64-2; I, II; 3.

(b) *Surgical Clinic.*—Every Monday morning from 9:00 to 12:30. Diagnosis, case discussions, and operations. Reports. 112-3½; I, II; 3.

Professor MOOREHEAD, Assistant Professor SCHULTZ, and assistants

Extracting Clinic.—Selection and application of forceps and elevators; demonstration of nitrous oxid, oxygen, novocain, conduction and infiltration; asepsis and after treatment. 288-9; I, II; 3.

Dr. BERNARD

OPERATIVE DENTISTRY

DONALD MACKAY GALLIE, D.D.S., *Professor*

LOUIS E BAKE, D.D.S., *Assistant Professor*

JOHN C MCGUIRE, D.D.S., *Superintendent of Infirmary, Instructor*

¹The first number indicates the total number of hours in a course; the number after the hyphen indicates the number of exercises a week; the Roman numerals I, II indicate the first and second semesters, and the final numbers 1, 2, 3 indicate respectively the freshman, junior, and senior years. Thus 112-7; I; 2 means that the course includes 112 hours, 7 a week, given during the first semester of the junior year.

W IRA WILLIAMS, D.D.S., *Instructor*

EDWARD J KREJCI, D.D.S., *Instructor*

FRANK H VORHEES, D.D.S., *Instructor*

Operative Dentistry.—Nomenclature; tooth forms; carving in ivory or bone; dissections of the pulp chamber and canals; longitudinal and transverse sections; instrument making and care; cavity preparation in ivory blocks and tooth forms; instruments for different cavities; manipulation, grasps, rests, and direction and control of force; treating, cleaning, and filling of root canals; filling materials, their application, preparation, and manipulation. 256-8; I, II; 1.

Assistant Professor BAKE, Dr. KREJCI

Operative Dentistry.—Cavity nomenclature and preparation; use of the odonto-type; inlay technic; chair positions; application of the rubber dam; use of clamps, wedges, and separation. *Operative Clinic:*—Beginning with the second semester, second year students are admitted to the infirmary, and given instruction in oral prophylaxis, followed by regular infirmary work. *One lecture and recitation throughout the year; 128 hours, laboratory; 2.*

Professor GALLIE, Assistant Professor BAKE

Operative Dentistry.—Review; management of patients and special cases; treatment and filling of children's teeth; erosion; atrophy; abrasions. 64-2; I, II; 3.

Professor GALLIE

PROSTHETIC DENTISTRY

GEORGE WALTER DITTMAR, D.D.S., *Professor*

SOLOMON PERRY STARR, D.D.S., *Assistant Professor*

MILZOR WILLIAM DEIST, D.D.S., *Instructor*

REUBEN LENZER, D.D.S., *Instructor*

ROSCOE W UPP, D.D.S., *Assistant*

Prosthetic Dentistry.—Terminology; materials; impressions; plaster casts and models; base plates; articulation and occlusion; carving, polishing, and finishing of vulcanite dentures; models for dies; casting; counter die construction; swaging; soldering; casting aluminum and "fusible metal" plates. 236-8; I, II; 1.

Assistant Professor STARR, Dr. KAPLAN

Prosthetic Dentistry.—Crown and bridge work; root preparation, band construction, and crown conformation; restoration of badly decayed roots for crowns; repairing and restoring portions of fractured roots; carving, swaging, and casting cusps; swaging seamless crowns; casting full metal and porcelain faced crowns, cap and pin crowns; grinding and backing facings; detachable porcelain crowns. Bridge work: casting; removable bridge work; tenso-friction attachments; splints and bar supports; selection of porcelain facings and crowns; grinding, polishing, staining. 224-7; I, II; 2.

Assistant Professor STARR, Dr. LENZER, Dr. DEIST, Dr. UPP

Prosthetic Dentistry.—Plate denture construction; human dental mechanism: temporo-mandibular articulation; operations; occluding frames; registration of condyle paths and rotation points in the mandible; physiognomy and temperament of individuals and construction of dentures with teeth of proper size, form, shade, and arrangement; grinding, shaping, and staining; continuous gum dentures and vulcanite and metallic bases; partial plates and removable bridges; porcelain and forms of porcelain teeth; crowns and bridge construction; splints for the retention of loosened teeth and maxillary fractures; velæ and obturators for the restoration of cleft palates. 102-3; I, II; 3.

Professor DITTMAR and assistants

MATERIA MEDICA AND THERAPEUTICS

EDGAR D COOLIDGE, D.D.S., *Professor*

EDWARD J KREJCI, D.D.S., *Instructor*

BENJAMIN H SCHLOMOVITZ, B.S., M.S., *Assistant*

Materia Medica.—Drugs used in dentistry; terminology. 32-1; I, II; 1.

Dr. KREJCI

Materia Medica.—Pharmaceutical preparations; classification of drugs; administering; conditions which modify their effects; action upon tissues and organs; poisons. Lectures; recitations. Text-book: Prinz's *Dental Materia Medica and Therapeutics*. 16-1; I; 2.

Professor COOLIDGE, Mr. SCHLOMOVITZ

Therapeutics.—Prescription-writing; pathological lesions; dental caries; salivary deposits; oral hygiene and prophylaxis. Lectures; recitations. Text-books: Prinz's *Materia Medica and Therapeutics*; Marshall's *Mouth Hygiene*. 16-1; II; 2.

Professor COOLIDGE

Therapeutics.—Pathologic conditions of the peridental membrane and pulp; treatment; dental caries; diseases of the dental pulp; hypersensitive dentin; pulp capping; hyperemia of the pulp; anesthetization and devitalization of the pulp, its removal, treatment and filling of root canals; pulp gangrene, suppuration, and alveolar abscess; discoloration and bleaching; the peridental membrane; pericementitis, apical and complete, septic and non-septic, phagademic pericementitis, gingivitis, pyorrhea, and stomatitis; oral prophylaxis; thesis. Text-book: Prinz's *Dental Materia Medica and Therapeutics*. 32-1; I, II; 3.

Professor COOLIDGE

ORTHODONTIA

FREDERICK BOGUE NOYES, B.S., D.D.S., *Professor, Histology*

Orthodontia.—Normal occlusion, mal-occlusions. Lectures, illustrated by lantern slides and the projectoscope. Text-book: Angle's *Malocclusion of the Teeth*. 32-1; I, II; 3.

Professor NOYES

ANATOMY, HISTOLOGY, AND EMBRYOLOGY

ALBERT CHAUNCEY EYCLESHYMER, M.D., Ph.D., *Professor, Anatomy*

FREDERICK BOGUE NOYES, B.S., D.D.S., *Professor, Histology*

VICTOR EMMANUEL EMMEL, M.S., Ph.D., *Assistant Professor of Anatomy*

ROY LEE MOODIE, A.B., Ph.D., *Associate, Anatomy*

CLIFFORD WEBB WELLS, B.S., M.D., *Instructor, Histology*

S W WILLISTON, M.D., Ph.D., D.Sc., *Lecturer in Comparative Anatomy*

Systematic Anatomy.—Dissection of the entire body; respiratory and digestive systems and dissection of head and neck. Lectures; demonstrations; laboratory; recitations. 256-8; I, II; 1.

Assistant Professor EMMEL

Topographical Anatomy.—Head and neck in serial section; topography of the organs and structures. Lectures; recitations; demonstrations; laboratory. 114-8; I; 2.

Dr. MOODIE

Comparative Anatomy.—Evolution of the masticatory apparatus. 10; II; 2.

Dr. WILLISTON

General Histology.—Cell structure and function; relation to intercellular substances and tissues; elementary tissues; histology of the circulatory system; the alimentary tract and glands; the urinary system; the respiratory system, and the skin, nails, and hair. Text-book: Bailey. Three hours laboratory work and one hour lecture or quiz a week. 128; I, II; 1.

Professor NOYES, Dr. WELLS

Dental Histology and Embryology.—The tissues of the teeth, the supporting tissues and the tissues of the oral cavity; the enamel; operative procedures; cavity walls; general embryology; embryology of the teeth, mouth, and jaws. Text-book: Noyes's *Dental Histology and Embryology*. Three hours laboratory and one hour lecture and quiz a week. 128; I, II; 2. Professor NOYES, Dr. WELLS

Graduate Work

Dental Histology.—In the summer of 1916 a special course of six weeks in dental histology was offered for those desiring to prepare themselves for the teaching of this subject in dental schools. The course consisted of three hours of laboratory work and one hour of lecture or quiz a week.

PHYSIOLOGY AND CHEMISTRY

GEORGE PETER DREYER, A.B., Ph.D., *Professor, Physiology and Chemistry*

WILLIAM HENRY WELKER, A.C., Ph.D., *Assistant Professor, Chemistry*

CLAYTON S SMITH, B.S., M.S., Ph.D., *Associate, Chemistry*

ALFRED ERWIN LIVINGSTON, M.S., Ph.D., *Associate, Physiology*

HARRY HENRY STRAUCH, B.S., *Assistant, Chemistry*

J CRAIG SMALL, B.S., *Student Assistant, Chemistry*

HOWARD CURL, A.B., *Student Assistant, Physiology*

ALBERT CHARLES D'VORAK, B.S., *Student Assistant, Chemistry*

PHILIPP A OHLSON, *Technician, Chemistry*

JAMES T GROOT, *Technician, Physiology*

Physiology

The students of the College of Dentistry take their work in physiology in the physiology laboratory of the College of Medicine. The work falls in the junior year when the prerequisites, including anatomy, histology, and chemistry, have been in large part completed.

Systematic Human Physiology.—Lectures; recitations. 96-3; I, II; 2.

Dr. LIVINGSTON, Mr. CURL, and assistants

Practical Physiology.—Demonstrations and laboratory. 64-2; I, II; 2.

Dr. LIVINGSTON, Mr. CURL, and assistants

Chemistry

The instruction in chemistry is given in the laboratories of the College of Medicine.

General Inorganic Chemistry.—Metals and non-metals. Text-books: McPherson and Henderson's *Course in General Chemistry*; Remsen's *Chemical Experiments*. Lectures and quiz, 4; laboratory, 6; I; 1.

Mr. SMALL, Mr. STROUCH, Mr. D'VORAK, and assistants

Qualitative Analysis.—Metals and acids; the groups; solutions of unknown bases, unknown acids, and unknown bases and acids. Text-book: Gooch and Browning's *Outlines in Qualitative Chemical Analyses*. 80. Lectures and quiz, 4; laboratory, 6; II, first half; 1.

Mr. STRAUCH, Mr. SMALL, Mr. D'VORAK, and assistants

Metallurgy.—Extraction and refining of metals; physical properties; ores, alloys, solders, and cements. Text-book: Hodgen's *Practical Dental Metallurgy*. 80. Lectures and quiz, 4; laboratory, 6; II, second half; 1.

Assistant Professor WELKER, Mr. SMALL, Mr. STRAUCH, Mr. D'VORAK, and assistants

Metallurgy.—(Advanced course, open to students who have completed satisfactory courses in inorganic chemistry, qualitative analysis, and metallurgy.)
Hours to be arranged. Assistant Professor WELKER

DENTAL JURISPRUDENCE

ELMER DEWITT BROTHERS, LL.B., *Lecturer*

Dental Jurisprudence.—The dentist's individual and professional rights and obligations; responsibilities arising from the relation of dentist and patient; dental laws of the various states. *Senior year.* Mr. BROTHERS

RADIOGRAPHY

JOHN C MCGUIRE, D.D.S., *Instructor*

BURNE O SIPPY, A.B., *Student Assistant*

MARTIN R ANDERSON, *Student Assistant*

Radiography.—The X-ray as a diagnostic agent; the radiograph; exposure and development. *Senior Year.* Dr. MCGUIRE, Mr. SIPPY, Mr. ANDERSON

PRACTITIONERS' COURSE

Oral Surgery, Radiography, and Therapeutics.—Class limited to twenty-five. Fee, \$25. *Hours to be arranged.*

Professor MOOREHEAD, Professor COOLIDGE, Assistant Professor SCHULTZ, Dr. MCGUIRE, Dr. KREJCI, and assistants

SUMMARY OF CURRICULUM

Departments	Freshman Year		Hours	
	Didactic	Laboratory	Total	
Materia Medica.....	34	..	34	
Anatomy.....	64	136	200	
Histology.....	34	96	130	
Chemistry.....	102	204	306	
Operative Technic.....	..	238	238	
Dental Anatomy.....	32	..	32	
Prosthetic Technic.....	..	272	272	
Total.....	266	946	1212	
Departments	Junior Year		Hours	
	Didactic	Laboratory	Total	
Anatomy.....	¹ 17	¹ 68	85	
Physiology.....	68	102	170	
Materia Medica.....	68	..	68	
Bacteriology.....	¹ 34	¹ 85	119	
Pathology.....	² 51	² 68	119	
Histology.....	34	96	130	
Prosthetic Dentistry.....	34	204	238	
Operative Dentistry.....	34	170	204	
Comparative Anatomy.....	² 17	..	17	
Total.....	357	793	1150	

¹First Semester.

²Second Semester.

Senior Year

Departments	Hours			Total
	Didactic	Laboratory	Clinic	
Special Bacteriology and Pathology.....	34	34	..	68
Oral Surgery.....	34	..	102	136
Extracting.....	..	..	288	288
Therapeutics.....	34	..	..	34
Orthodontia.....	34	..	..	34
Prosthetic Dentistry.....	34	68	340	442
Operative Dentistry.....	34	..	340	374
Porcelain Art.....	..	..	32	32
Jurisprudence (Dental).....	17	..	..	17
Radiography.....	17	10	..	27
Ethics and Economics.....	10	..	..	10
Total.....	248	112	1102	1462

TEXT BOOKS

Students are requested to consult the head of each department before purchasing text books. The most recent editions are required in every case.

FEEs**New Schedule—Effective September 1, 1917**

Matriculation fee (paid first year) ¹	\$ 10.00
Registration fee (paid each year).....	5.00
Tuition, each year (including laboratory and dissection fees).....	150.00
Locker fee.....	2.00
Diploma fee (paid on graduation).....	5.00

Fees are not returned to students who are suspended or expelled or to those who are absent for any cause except illness. Payments should be made in currency or in Chicago exchange drawn to the order of the University of Illinois.

FEEs ARE PAYABLE IN ADVANCE.—Students unable to meet this requirement must make satisfactory arrangements with the Dean at the beginning of the course.

BOARD AND ROOMS

Board and rooms convenient to the College can be obtained at prices varying from four to six dollars a week; rooms without board, furnished or unfurnished, can be obtained at from six to ten dollars a month.

FURTHER INFORMATION

For further information, address **THE DEAN OF THE COLLEGE OF DENTISTRY**, Harrison and Honore Streets, Chicago, Illinois.

¹Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

THE SCHOOL OF PHARMACY

For the *faculty* of the School of Pharmacy, see page 41; for a description of the *buildings*, see page 58.

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. The first class, of two students, was graduated in 1861. The war caused a suspension of teaching, and the school was not reopened until 1870. The fire of 1871 destroyed the equipment, but in 1872 instruction was resumed for the second time and has since continued without interruption.

The College was formally united with the University May 1, 1896, becoming the technical School of Pharmacy of the University of Illinois.

THE NEW LOCATION

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets and comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

The new location is in the great medical center of Chicago and close to the colleges of Medicine and Dentistry of the University.

EQUIPMENT

The buildings include two substantial brick structures connected at each floor by a stair-tower building. Both have daylight from four sides and electric light throughout, and are heated by steam.

The larger building is sixty by eighty feet square and four stories high. It contains the offices, the library, the museum, the microscopical laboratory, the bacteriological laboratory, an auditorium, a lecture hall, a recitation room, preparation rooms and private laboratories for the teachers, student's rooms, and locker rooms.

The smaller building is forty-four by eighty-eight feet square and three stories high. It contains the pharmaceutical laboratory, the laboratory for quantitative analysis, the laboratory for qualitative analysis, and several private laboratories for the teachers, as well as store rooms and supply rooms.

The stair-tower building, of fireproof construction, provides the students' entrance, stairways to each floor, corridors, toilets, and rooms for the hydrogen sulphide generator and distilled water supply.

The total capacity of the laboratories is sufficient for 266 students, working at one time.

The laboratories are supplied with compound microscopes, analytical balances, and special apparatus, and with collections of crude drugs, medicinal plants, chemicals, and pharmaceutical products.

The library contains over two thousand volumes, including, in addition to the usual works of reference, many rare books and complete files of the leading pharmaceutical journals.

CURRICULUMS

For the Degree of Graduate in Pharmacy

In the curriculum leading to the degree of Graduate in Pharmacy the instruction is so arranged as to require the attendance of each student on three days each week and from twenty to twenty-two hours weekly during two annual sessions of thirty-six weeks each. This arrangement is advantageous to drug clerks who desire to spend a part of their time in drug stores while attending school, thereby adding to their practical experience and at the same time earning a part or all of their living expenses.

The subjects taught are chemistry, general, pharmaceutical, and analytical; pharmacy, theoretical, manufacturing, and dispensing; botany; physiology; and *materia medica*.

For the Degree of Pharmaceutical Chemist

To meet the demand for special training on the part of students who desire to pursue more extended courses in pharmaceutical chemistry, applied microscopy, and bacteriology, or to prepare themselves for positions in food and drug laboratories, the School offers a three-year curriculum leading to the degree of Pharmaceutical Chemist. This curriculum comprises three annual sessions of thirty-six weeks each, the first two years being identical with the curriculum for the degree of Graduate in Pharmacy. The third year consists largely of laboratory practise.

This curriculum includes, in addition to the subjects mentioned above, organic analysis and proximate assays, new remedies, analysis of urine, food and sanitary analysis, bacteriology, and applied microscopy.

The system of teaching includes lectures, illustrations, demonstrations, recitations, written and oral examinations, and individual practise and personal instruction in the various laboratories, much time being devoted to this important part of the student's work.

ADMISSION

The regular session opens September 26, 1916 and closes June 13, 1917.

Applicants for admission must be at least seventeen years of age and must be graduates of accredited high schools. Their high-school course must have included 15 acceptable units of high-school work, or the full educational equivalent.

Admission as special students, not candidates for a degree, is restricted to registered apprentices, assistants, or pharmacists, not less than twenty-one years of age.

Students who have pursued courses of study in other schools of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this School.

GRADUATION

Drug store experience is not made a requirement for the degree of Pharmaceutical Chemist. Students who have satisfactorily completed the curriculum will be awarded the degree on the recommendation of the faculty.

For the degree of Graduate in Pharmacy this School has always required practical drug store experience. The actual time of attendance at the School, amounting to eighteen months, is credited as part of the four years of practical experience required for the degree. Candidates must have attained the age of twenty-one years and have satisfactorily finished the work leading to the degree.

Students who have successfully met the scholarship requirements, but are lacking in age or in practical experience, will receive a certificate and will be awarded the diploma when the requirements of age and experience are satisfied.

Persons competent to fill the general requirements of admission to the University may be granted credits upon other University courses for equivalent work completed at the School of Pharmacy.

STATE REGISTRATION

To become a registered pharmacist in Illinois, it is necessary to pass an examination before the State Board of Pharmacy, no diplomas being recognized.

The diploma of this School is, however, accepted in lieu of examination for registration in several states and territories; and in other states, including New York and Pennsylvania, where graduation prerequisite laws are in force, this School is among the schools recognized, and its diploma admits to the examination.

The School holds membership in the American Conference of Pharmaceutical Faculties.

The amendments to the Illinois Pharmacy Law, in effect July 1, 1907, give credit, as a part of the "practical experience in compounding drugs" required by the law, for the actual time of attendance at a recognized school of pharmacy, but not to exceed two years for registered pharmacist or one year for registered assistant pharmacist.

FEES AND EXPENSES

For a statement of the fees, see page 112. Fees are payable in advance. Students unable to meet this requirement must make satisfactory arrangements with the Dean at the beginning of the course.

BOARD AND LODGING.—Good board and lodging, within a short distance of the School, can be had for from five to six dollars a week.

SELECTION OF SEATS.—Seats in the lecture halls and desks in the laboratories will be assigned to students in the order of enrollment. To enroll, junior students will fill out the matriculation blank and forward it to the Dean together with credentials for admission and the matriculation fee of five dollars; senior students will make a payment on tuition account of five dollars. It is of advantage to students to matriculate early.

OPPORTUNITIES FOR EMPLOYMENT.—A register of students desiring employment and of pharmacists wishing to employ students is kept at the School. Students desiring employment are invited to correspond with the Dean.

FURTHER INFORMATION

Further information may be found in the special announcement of this School, which may be obtained from the DEAN, SCHOOL OF PHARMACY, 701 South Wood Street, Chicago, Illinois.

PART III
DESCRIPTION OF COURSES



DESCRIPTION OF COURSES

EXPLANATION

The arrangement of subjects in the following Description of Courses is alphabetical. The connections of allied departments are indicated by cross references.

Following the description of each course of instruction will be found the requirements, if any, for admission to that particular course. The sequence indicated by these prerequisites must be followed. For instance, under Art and Design 5, Painting, the prerequisites given are Art and Design 1, 2, and 3. These three courses must be completed before Course 5 may be taken.

If a course not required for graduation is selected by fewer than five students it may be withdrawn for the semester.

Graduate courses are numbered upward from 100.

Credit is reckoned in *semester hours*, or simply *hours*. An *hour* is one class period a week for one semester, or the equivalent in laboratory, shop, or drawing room. Graduate work is not recorded in credit hours nor do the credit hours of undergraduate courses apply to graduate students enrolled in them.

The semester, and the number of *hours* each semester for which the course counts, are shown after each course; thus: *I, II; (2)*. The Roman figures indicate semesters; the Arabic numerals in parenthesis indicate *hours* of credit for *each semester* for undergraduates. The omission of a course for the current year is indicated by enclosing the entire description of such a course in brackets.

"S," which is prefixed to each of the courses offered in the summer session, means "summer" and is used to distinguish such courses from those of the same number offered during the regular university year. Summer courses do not always cover the same ground as those similarly numbered in the regular session. Students wishing to know in what respect such courses are similar will be gladly furnished the desired information by the Director of the Summer Session on application. All courses in the summer session that are granted graduate credit are marked with an asterisk (*). Courses numbered 100 and above are open only to graduate students.

ACCOUNTANCY

(See BUSINESS ORGANIZATION AND OPERATION.)

AGRICULTURE

Summer Session Courses

WILLIAM LEONIDAS BURLISON, Ph.D., *Associate Professor, Crop Production*ARETAS WILBUR NOLAN, M.S., *Assistant Professor, Agricultural Extension*SLEETER BULL, M.S., *Associate, Animal Nutrition*GILBERT GUSLER, B.S., *Associate, Animal Husbandry*ELMER ROBERTS, B.S., *Instructor, Genetics*KARL JOHN THEODORE EKBLAW, M.S., *Associate, Farm Mechanics*JAMES HENRY GREENE, M.S., *State Leader, Junior Extension*ARTHUR SAMUEL COLBY, M.S., *Assistant, Pomology*

The work in the Summer Session is planned for teachers of agriculture in elementary and high schools, and also to enable those seeking degrees in agriculture to cover a portion of the required freshman subjects.

(For the courses in agriculture given during the winter session, see AGRICULTURAL EXTENSION, AGRONOMY, ANIMAL HUSBANDRY, DAIRY HUSBANDRY, and HORTICULTURE.)

S1. General Agriculture.—For description, see *Agricultural Extension* 1 (2½). Assistant Professor NOLAN, Mr. GREENE

S1a. Elements of Horticulture.—The farm home; orcharding; the home orchard and small fruit garden; orchard insects and diseases. (2). Mr. COLBY

S1b. Elements of Horticulture.—The farm home; vegetable gardening; laying out and planting a garden; storage of vegetables and fruit; ornamental planting. (2). Mr. COLBY

S 5. Fundamentals of Live Stock Judging.—For description see *Animal Husbandry* 5. (2½). Mr. GUSLER

S 8. Principles of Breeding.—For description see *Animal Husbandry* 8. (1). Mr. ROBERTS

S 20. Farm Concrete Construction.—For description see *Agronomy* 20. (2). Mr. EKBLAW

S 21. Principles of Feeding.—For description see *Animal Husbandry* 21. (2). Mr. BULL

S 25. Farm Crops.—For description see *Agronomy* 25. (2). Associate Professor BURLISON

S 26. Farm Mechanics and Equipment.—For description see *Farm Mechanics* 26. (2½). Mr. EKBLAW

S 90. Rural Education.—Rural life conditions; needs and agencies at work in rural progress. (2). Assistant Professor NOLAN

AGRICULTURAL COLLEGE EXTENSION

FRED HENRY RANKIN, B.S., *Superintendent and Assistant to the Dean, with rank of Assistant Professor*

ARETAS WILBUR NOLAN, M.S., *Assistant Professor*

ALBERT WOODWARD JAMISON, M.S., *Assistant Professor*

JOSEPH HARVEY CHECKLEY, B.S., *Assistant*

ROBERT ENOCH HIERONYMUS, M.A., LL.D., *Community Adviser*
 JAMES HENRY GREENE, M.S., *State Leader, Junior Extension*

1. **Principles and Methods of High School Agriculture.**—Adaptation of agricultural science and practise to high school conditions; order and methods of presentation; laboratory work; apparatus; field work. Practise teaching provided through cooperation with the local high school. II; (5).

Assistant Professor NOLAN

Prerequisite: Two years' work in agriculture.

3. **Agricultural Extension Teachings.**—The service of extension enterprises to the people; farmers' institutes; agricultural extension schools; farmers' clubs and cooperative work in rural communities. II; (1).

Assistant Professor RANKIN, Assistant Professor JAMISON

Prerequisite: One year of university work.

4. **Country Life Problems.**—Problems of the farm; duties of citizenship; social, economic, and educational work in rural communities. Lectures. Required of first-year students. I; (1).

Dean DAVENPORT and other lecturers; Assistant Professor JAMISON in charge.

(Credit given to agricultural freshmen only.)

AGRONOMY

CYRIL GEORGE HOPKINS, Ph.D., *Professor, Agronomy*
 LOUIE HENRIE SMITH, Ph.D., *Professor, Plant Breeding*
 JEREMIAH GEORGE MOSIER, B.S., *Professor, Soil Physics*
 WILLIAM LEONIDAS BURLISON, Ph.D., *Associate Professor, Crop Production*
 ROBERT STEWART, Ph.D., *Associate Professor, Soil Fertility*
 AXEL FERDINAND GUSTAFSON, M.S., *Assistant Professor, Soil Physics*
 EARL ARCHIBALD WHITE, M.S., *Assistant Professor, Farm Mechanics*
 IRA WILMER DICKERSON, B.S., *Associate, Farm Mechanics*
 FREDERICK CHARLES BAUER, B.S., *Associate, Soil Fertility*
 ALBERT LEMUEL WHITING, Ph.D., *Associate, Soil Biology*
 WALTER BYRON GERNERT, Ph.D., *Associate, Plant Breeding*
 CHESTER OTIS REED, B.S., *Instructor, Farm Mechanics*
 FORREST ADDISON FISHER, B.S., *Instructor, Soil Physics*
 MARVIN EDWARD JAHR, A.B., *Instructor, Farm Mechanics*
 HARRY CHARLES GILKERSON, B.S., *Instructor, Soil Fertility*
 HOWARD JOHN SNIDER, B.S., *Instructor, Soil Fertility*
 WARREN RIPPEY SCHOONOVER, M.S., *Instructor, Soil Biology*
 EDWARD HARVEY WALWORTH, B.S., *Instructor, Crop Production*
 FRANK ARCHIBALD WYATT, Ph.D., *Instructor, Soil Fertility*
 ALFRED THORPE MORISON, B.S., *Assistant, Crop Production*
 EDWARD FRITCHOFF TORGERSO, B.S., *Assistant, Soil Physics*
 WASHINGTON IRVING BROCKSON, M.S., *Assistant, Crop Production*
 RAY IRIS SHAWL, B.S., *Assistant, Farm Mechanics*

Courses for Undergraduates

Crops: Agronomy 7, 8, 18, 22, 25.

Soils: Agronomy 9, 10, 11, 12, 13, 18, 23.

Farm Mechanics and Buildings: Agronomy 1, 2, 3, 4, 17, 18, 19, 20, 26, 27.

1. **Drainage.**—Drainage and its surveying operations. Chaining, mapping,

leveling, designing, setting grade stakes, laying tile. Lectures and laboratory first half semester; field work second half semester. *II*; (3). Mr. JAHR

Prerequisite: Agronomy 9 (Soil Physics), or its equivalent.

2. Field Machinery.—Construction, operation, adjustment, purchase, and care of implements for soil, seed, and feed preparation, and for seeding, cultivating, harvesting, and handling farm crops. Whiffle-trees and hitches. Lectures; laboratory; practise in troubles, adjustments, and testing of farm power machines. *I*; (3). Mr. REED, Mr. SHAWL

Prerequisite: Agronomy 26 or registration therein, except for seniors.

3. Farm Power Machinery.—The horse as a motor, windmills, water-power, steam engines, hot-air engines, electric motors; internal combustion engines and tractors; transmission. Lectures; laboratory. (Alternating with Mechanical Engineering 71 and 73 if desired.) *II*; (3). Mr. DICKERSON, Mr. SHAWL

Prerequisite: Agronomy 26 or registration therein, except for seniors.

4. Farm Buildings.—Materials, construction, arrangement, design, and cost estimation. Recitations and drafting. *I*; (3). Assistant Professor WHITE

7. Advanced Farm Crops.—Climatic and soil factors; meadows and pastures; rotation; labor; cost of production; seed production; products and by-products of farm crops; storage; marketing. Lectures; assigned reading; laboratory; demonstrations. *II*; (3). Associate Professor BURLISON

Prerequisite: Agronomy 25, Chemistry 13a, and either Botany 3b or an approved equivalent in science (consult instructor).

8. Special Farm Crops.—Special crops in which the student is interested. Reading; experiments by pot culture in the greenhouse or by plots in the field. Under special arrangement part of this work may be done during summer vacation; *II*; (2-5).¹ Associate Professor BURLISON, Mr. MORISON

Prerequisite: Agronomy 7.

9. Soil Physics and Management.—Origin and formation of soil material; mechanical composition and classification; moisture; texture; wasting by washing; fall or spring plowing and drainage; real and apparent specific gravity, porosity, water holding capacity, and capillary power; systems of rotation; continuous cropping. Lectures; laboratory. *I* or *II*; (5).

Professor MOSIER, Assistant Professor GUSTAFSON, Mr. FISHER, Mr. TORGERSON

Prerequisite: Chemistry 13a, and one unit of entrance or university physics. Irregular students should consult instructor.

10. Special Work in Soil Physics.—Physical properties of special soils; physical analysis; hygroscopic and wilting coefficients; moisture equivalents; effect of tillage. Students may work with special soils. Under special arrangement part of this work may be done during summer vacation. *I* or *II*; (2-5).¹

Professor MOSIER, Assistant Professor GUSTAFSON, Mr. FISHER

Prerequisite: Agronomy 9, and approval of the Soil Physics division.

11. Soil Biology.—Biochemical activities of soil microorganisms; isolation of organisms; action on insoluble mineral plant food; fermentation of crop residues,

¹ In registering for a course with variable credit hours, a student must put down on his study-list not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

green and farm manures; nitrogen fixation, assimilation, and preservation. Lectures; quiz; laboratory. *II*; (5). Dr. WHITING, Mr. SCHOONOVER

Prerequisite: Agronomy 12 and Bacteriology 1, 5, or 20, or the equivalent.

12. Soil Fertility, Fertilizers, Rotations.¹—Effects of crops on the soil and on succeeding crops; rotations; fertility and productivity; manures and fertilizers; soils cropped continuously with different crops and with a series of crops; fertility of soils of different types from different sections of Illinois.² Lectures; laboratory. *II*; (5).

Professor HOPKINS, Mr. BAUER, Dr. WYATT, Mr. GILKERSON, Mr. SNIDER

Prerequisite: Chemistry 13a; Agronomy 9.

12a. Soil Fertility, Fertilizers, Rotations.¹—The same as Agronomy 12, for advanced students. Lectures; quiz. *II*; (2).

Professor HOPKINS, Mr. BAUER, Dr. WYATT, Mr. SNIDER

Prerequisite: Graduate standing, or advanced undergraduate standing with the approval of the division.

13. Investigation of the Fertility of Special Soils.—Soils in which the student is interested. Fertility; effect of fertilizers, as determined by pot cultures and by pot experiments; work of experiment stations and experimenters. *I*; (3-5).³

Associate Professor STEWART, Dr. WYATT

Prerequisite: Agronomy 12.

16. German Agricultural Readings.—Soils and crops. The current numbers of German journals of agricultural science used as texts. *II*; (2).

Professor HOPKINS

Prerequisite: Two years' work in German; Agronomy 12.

17. Harvesting Machinery.—(For students preparing to do expert work in the field. Before registering in this course students should consult the instructor.) *II*; (3).

Mr. REED, Mr. SHAWL

Prerequisite: M. E. 71; Agronomy 2, and Agronomy 3, or registration therein.

18a-18b. Investigation and Thesis.—*I, II*; (5-10).³

Professor HOPKINS, Professor MOSIER, Professor SMITH, Associate Professor STEWART, Associate Professor BURLISON, Dr. WHITING

19a-19b. Research in Farm Mechanics.—(Consult instructor.) *I, II*; (1-5).³

Assistant Professor WHITE, Mr. DICKERSON, Mr. JAHR, Mr. REED

20. Farm Concrete Construction.—Materials; mixing and placing; simple comparative tests; specifications and estimates. Lectures; laboratory. *II*; (2).

Mr. JAHR

22. Plant Breeding.—The improvement by breeding of field crops. Lectures; assigned reading; demonstrations; laboratory. (This course may be taken with Agronomy 7). *II*; (2).

Professor SMITH, Dr. GERNERT

Prerequisite: Botany 1; Chemistry 13a; Agronomy 25.

23. Plant Food Supplies.—The world's supply of plant-food materials; utilization and conservation. *II*; (1).

Associate Professor STEWART

Prerequisite: Agronomy 12.

¹A required inspection trip to certain soil experiment fields or farms will be arranged in May or early June, in connection with courses 12 and 12a, which will require an expense of about \$10 on the part of the student.

²The student is advised to collect in advance a representative composite sample of surface soil (at least 6 pounds) from land in which he is interested (see page 44 of the Soil Fertility Laboratory Manual, or Illinois Experiment Station Circular 150).

³In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

25. Farm Crops.—Plant growth; structure; production and harvesting; common diseases, insects, and their control; weed seed identification; weed control; seed testing; market grades of grain; grain judging. *I or II; (4).*

Associate Professor BURLISON, Mr. WALWORTH, Mr. MORISON, Mr. BROCKSON

26. Elementary Farm Mechanics.—Ropes, soldering, babbiting, belt lacing, pipe cutting, plumbing, sewage disposal; water, lighting, and heating systems; power transmission; mechanics; equalizers. Design of farm power plant. *I or II; (3).*

Assistant Professor WHITE, Mr. DICKERSON

27. Drainage Design.—Designing of tile drainage systems from level note data and contour maps; estimating; designing of outlet open ditch system for drainage districts; drainage district laws; preparing bids on contract jobs; advanced field work. *I; (1-5).¹*

Mr. JAHR

Prerequisite: Agronomy 1, or Civil Engineering 96, 31, or 32.

Courses for Graduates

Students taking their major work in agronomy must have had the major courses in agronomy offered to undergraduates in the College of Agriculture of the University of Illinois, or their equivalent. Graduate students may specialize either in soils or in crops. Courses 7, 9, 11 and 12, or the equivalent, will be required of graduates who specialize in soils and courses 7, 9, 12, and 22 or the equivalent will be required of those specializing in crops. While everyone seeking a doctor's degree with agronomy as a major will be required to have a general knowledge of the whole field of agronomy, each student is expected to prepare a thesis in some one of the divisions, soil fertility, soil physics, soil biology, plant breeding or crop production.

Students who are taking their major work in other departments and choose agronomy as a minor, must have had previously the work in chemistry, botany and other fundamental sciences prescribed for the undergraduate courses in agronomy in the College of Agriculture, or the equivalent.

101. Soil Investigations.—System of soil investigations; sources of error and methods of control; interpretation of results. *Twice a week; I, II; (1 unit).*

Associate Professor STEWART

104. Seminar in Agronomy.—Once a week; *I, II; (½ unit).*

Dr. WHITING and others

112. Plant Breeding.—Experiments at this station; methods and results reported from other states and from foreign countries. *Twice a week; I, II; (1 to 2 units).*

Professor SMITH

114. Crop Production.—Crop ecology; methods and results of crop production investigations. *Once a week; I, II; (½ to 2 units).*

Associate Professor BURLISON

118. Investigations.—A special problem is chosen by each student. *Consultation one to five times a week for different students; I, II; (1 to 4 units).*

Professors HOPKINS, SMITH, MOSIER, Associate Professors STEWART and BURLISON, Dr. WHITING, Dr. GERNERT

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

ANATOMY, HUMAN

(See under ZOOLOGY.)

ANIMAL HUSBANDRY

(Including FARM MANAGEMENT.)

- HERBERT WINDSOR MUMFORD, B.S., *Professor, Animal Husbandry*
 HARRY SANDS GRINDLEY, D.Sc., *Professor, Animal Nutrition*
 WALTER CASTELLA COFFEY, M.S., *Professor, Sheep Husbandry*
 HENRY PERLY RUSE, M.S., *Assistant Professor, Cattle Husbandry*
 JAMES LLOYD EDMONDS, B.S., *Assistant Professor, Horse Husbandry*
 JOHN A DETLEFSEN, D.Sc., *Assistant Professor, Genetics*
 WALTER FREDERICK HANDSCHIN, B.S., *Assistant Professor, Farm Organization and Management*
 DANIEL OTIS BARTO, B.S., *Associate, Poultry Husbandry*
 SLEETER BULL, M.S., *Associate, Animal Nutrition*
 HAROLD HANSON MITCHELL, Ph.D., *Associate, Animal Nutrition*
 WILLIAM HERSCHEL SMITH, M.S., *Associate, Animal Husbandry Extension*
 GILBERT GUSLER, B.S., *Associate, Animal Husbandry*
 ELMER ROBERTS, B.S., *Instructor, Genetics*
 WILBUR JEROME CARMICHAEL, M.S., *Instructor, Animal Husbandry*
 CHARLES IVAN NEWLIN, M.S., *Instructor, Animal Husbandry*
 JAMES BURTON ANDREWS, B.S., *Instructor, Animal Husbandry*
 ROSCOE RAYMOND SNAPP, B.S., *Instructor, Animal Husbandry*
 CLAUDE HARPER, B.S., *Assistant, Animal Husbandry*
 JAMES WILBUR WISENAND, M.S., *Assistant, Animal Husbandry*
 EARL KIRKWOOD AUGUSTUS, B.S., *Assistant, Animal Husbandry*
 ROY HAROLD WILCOX, B.S., *Assistant, Animal Husbandry*
 MAYNARD ELMER SLATER, B.S., *Assistant, Animal Nutrition*
 JOHN BENJAMIN RICE, B.S., *Assistant, Animal Husbandry*
 WILLIAM ALGERNON KINGSMILL MORKEL, M.S., *Assistant, Animal Husbandry*
 LAWRENCE EMERSON THORNE, B.S., *Assistant, Agricultural Statistics and Genetics*
 WILLIAM GARFIELD KAMMLADE, B.S., *Assistant, Animal Husbandry*
 JOHN CARL ROSS,¹ Ph.D., *Assistant, Animal Nutrition*
 HENRY CARL ECKSTEIN, B.S., *Assistant, Animal Nutrition*

Courses for Undergraduates

- Beef Cattle: *Animal Husbandry* 11a, 11b.
 Breeding, Feeding, Management, and Marketing: *Animal Husbandry* 8, 21, 28, 29, 30, 32, 33; *Farm Management* 1.
 General Judging: *Animal Husbandry* 1a, 2a, 4a, 5, 11a, 22.
 Genetics: *Animal Husbandry* 30.
 Horses: *Animal Husbandry* 4a, 4b, 17.
 Meat: *Animal Husbandry* 10, 24.
 Nutrition: *Animal Husbandry* 7, 31.
 Poultry: *Animal Husbandry* 23.
 Sheep: *Animal Husbandry* 1a, 1b, 27.
 Swine: *Animal Husbandry* 2a, 2b, 26.

NOTE.—Students registered in advanced courses such as 10, 22, 23, 28, 29, 32, and *Farm Management* 1, are required to participate in a tour of inspection of representative markets, farms, herds, flocks, and studs.

¹ Resigned, November 1, 1916.

1a. Sheep: Breeds and Market Classes.—Breeds used for mutton and wool production; types, characteristics, and adaptability; market classes and grades of sheep and wool. Lectures; judging. *I*; (2). Professor COFFEY, Mr. HARPER

Prerequisite: Animal Husbandry, 5 or its equivalent.

1b. Sheep: Breeding, Feeding, and Management.—Pure bred and grade flocks; feeding, housing, and shepherding. Lectures; reference readings. *I*; (3). Professor COFFEY, Mr. HARPER

Prerequisite: Animal Husbandry 5, 8, and 21, or their equivalents. It is advisable to take 1a and 1b the same semester.

2a. Swine: Breeds and Market Classes.—History of the leading breeds; types, characteristics, and adaptability; market classes and grades; market reports. Lectures; judging. *II*; (2). Mr. CARMICHAEL, Mr. RICE

Prerequisite: Animal Husbandry 5 or its equivalent.

2b. Swine Husbandry.—Economic production of market and breeding hogs. Breeding, feeding, housing, care, sanitation, common diseases, and marketing. Lectures; assigned reading; quizzes. *II*; (3).

Mr. CARMICHAEL, Mr. RICE

Prerequisite: Animal Husbandry 5, 8, and 21, or their equivalents. It is advisable to take 2a and 2b the same semester.

4a. Market Classes of Horses and Mules and Breeds of Horses.—Market classes, grades, and requirements. History of the leading breeds; types, characteristics, and adaptability. Lectures; judging. *II*; (2).

Assistant Professor EDMONDS, Mr. KAMMLADE

Prerequisite: Animal Husbandry 5, or its equivalent.

4b. Breeding, Feeding, and Management of Horses.—Care of stallions, mares, and foals; of work horses and drivers at labor and idle; fattening horses for market. Lectures; assigned readings. *II*; (3).

Assistant Professor EDMONDS, Mr. KAMMLADE

Prerequisite: Animal Husbandry 5, 8, and 21, or their equivalents. It is advisable to take 4a and 4b the same semester.

5. Fundamentals of Live Stock Judging.—Names and location of external parts of the kinds of live stock; score card; comparative judging; breed identification; types of farm animals. (Required in the freshman year.) *I* or *II*; (3).

Mr. GUSLER and others

7. Principles of Animal Nutrition.—Composition and fuel value of feeding stuffs; digestion, absorption, and metabolism; elimination; coefficients of digestibility and nutritive value of feeding stuffs. *I*; (5).

Professor GRINDLEY, Dr. MITCHELL, Mr. SLATER

Prerequisite: Animal Husbandry 8 and 21; Chemistry 13a.

7a. Principles of Animal Nutrition.—The same as Animal Husbandry 7, for advanced students. Lectures; recitations. *I*; (3).

Professor GRINDLEY and Dr. MITCHELL

Prerequisite: Graduate standing, or advanced undergraduate standing and the approval of the instructors.

8. Principles of Breeding.—Evolution and genetics; origin of domesticated animals and plants; history of breeding; and new theories. (Required in the sophomore year.) *I* or *II*; (1).

Assistant Professor DETLEFSEN, Mr. ROBERTS, and others

NOTE.—See Animal Husbandry 21.

9. Investigation and Thesis.—*I* or *II*; (5-10).¹

10. Meat.—Farm Butchering, curing, and care of meats; by-products; classes, grades, and cuts of meat in wholesale and retail markets. (The class will leave on its annual Chicago trip, Thursday morning, April 5, 1917. The cost will be about \$8.00.) *II*; (3). Professor COFFEY, Mr. AUGUSTUS

Prerequisite: Two years of university work.

11a. Beef Cattle.—Breeds and market classes; history; beef types; classification and value of each grade according to current market reports. Judging; lectures; quizzes; assigned readings. *I*; (2). Assistant Professor RUSK, Mr. SNAPP

Prerequisite: Animal Husbandry 5 or its equivalent.

11b. Beef Production—Pure bred herds; breeding for market; beef and milk production; cattle feeding; age, grade, breed, condition, and sex; equipment; pork and manure as by-products. Lectures; quizzes; assigned readings (text book). *I*; (3). Assistant Professor RUSK, Mr. SNAPP

Prerequisite: Animal Husbandry 5, 8, and 21, or their equivalents.

It is advisable to take 11a and 11b simultaneously.

15. Dairy Cattle.—(See Dairy Husbandry 2 and 16.)

[17. Education and Driving of the Horse.—Mental qualities, peculiarities, and limitations of the horse; training for labor or the road; correct driving; responsibilities of the driver; courtesies of the highway. Lectures; readings; practise. *II*; (2). Not given, 1916-17. Assistant Professor EDMONDS

Prerequisite: Animal Husbandry 4a and 4b; three semesters' work in the University or its equivalent.]

21. Principles of Feeding.—Feed nutrients; classification and values of feeding stuffs; feed requirements and balanced rations for farm animals. (Required in the sophomore year.) *I* or *II*; (2). Mr. BULL, Mr. WHISENAND, and others

Prerequisite: Chemistry 1 or 1a, Chemistry 2 and 3, Animal Husbandry 5, and registration in Animal Husbandry 8.

22. Advanced Stock Judging.—Animal conformation, quality, and condition with reference to market and show yard requirements; selection for feed lot, market, and exhibition; judging at live stock shows. (Dec. 21, 22, and 23, 1916, were spent in visiting breeders in northern Illinois and southern Wisconsin, and in a visit to the University of Wisconsin. The cost of this trip was about \$25.00.) *I*; (3). Professor MUMFORD and heads of divisions

Prerequisite: Animal Husbandry 1a, 2a, 4a, 11a, or their equivalents.

23. Poultry: Types, Breeds, and Varieties.—Exhibiting and judging; breeding; poultry houses and equipment; feeding, hatching, and brooding; market eggs and poultry; crate-fattening and dressing; diseases and their treatment. (A limited number of short trips are taken, the total cost of which will not exceed \$10.00.) *II*; (5). Mr. BARTOW

Prerequisite: Animal Husbandry 5, or its equivalent.

24. Meat.—Influence of type, condition, age, sex, and feeds on the yield and market grade of meat products. *II*; (2-5).¹

Professor COFFEY

Prerequisite: Animal Husbandry 10, and 1a or 2a or 11a; three years' work in the University, or its equivalent.

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

26. Swine Husbandry.—Special problems. *II*; (2-5).¹ Mr. CARMICHAEL

Prerequisite: Animal Husbandry 2a, 2b; three years' work in the University, or its equivalent.

27. Sheep Husbandry.—Factors determining the importance of the industry in leading sheep growing countries, particularly different parts of the United States. *II*; (2-5).¹ Professor COFFEY

Prerequisite: Animal Husbandry 1a, 1b; three years' work in the University, or its equivalent.

28. Advanced History of Breeds of Live Stock.—Methods of great breeders; performances and pedigrees of famous animals; breed type as exemplified in the University and other herds. Lectures; assigned readings; problems. (Dec. 21, 22, and 23, 1916, were spent in visiting breeders in northern Illinois and southern Wisconsin and in a visit to the University of Wisconsin. The cost of the trip was about \$25.00.) *I*; (3-5).¹

Breeds offered, 1916-17

Beef Cattle.....	Shorthorns, Aberdeen Angus
Horses.....	Percherons, Belgians, Standard breeds
Swine.....	Berkshires, Duroc Jerseys
Sheep.....	Shropshires, Southdowns

Breeds offered, 1917-18

Beef Cattle.....	Herefords, Galloways
Horses.....	Shires, Clydesdales, American Saddlers
Swine.....	Poland Chinas, Chester Whites
Sheep.....	Rambouillets, Oxford Downs

Professor MUMFORD and heads of divisions

Prerequisite: "a" and "b" courses in class of live stock elected. See note at the beginning of the description of animal husbandry courses.

29. Systems of Live Stock Farming.—Management, climate, soil, topography, location for markets; land, labor, capital, and managing ability as factors influencing the choice and adaptation of systems of production. Planning of farms for mixed and live stock systems. (The class visits some of the farms included in the Farm Management investigations being conducted by the department. This trip costs about \$15.00.) *II*; (2). Assistant Professor HANDSCHIN, Mr. WILCOX

Prerequisite: Animal Husbandry 5, 8, and 21, and 6 hours' credit from 1b, 2b, 4b or 11b; Farm Management 1. See note at beginning of description of animal husbandry courses.

30. Genetics.—Heredity, variation, elements of biometry, and their practical application to breeding. Lectures; demonstrations; laboratory. *II*; (5).

Assistant Professor DETLEFSEN, Mr. ROBERTS, Mr. THORNE

Prerequisite: Two years of university work. Before registering, students must secure the approval of the instructor.

31. Advanced Course in Animal Nutrition.—Digestion, histology and composition of the body tissues; metabolism; effect of food nutrients on metabolism; the fasting catabolism; food requirements and feeding standards; growth; proteins and amino acids. Lectures; recitations; laboratory. *II*; (5). Dr. MITCHELL

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

Prerequisite: Animal Husbandry 7 or Chemistry 15. An elementary knowledge of organic chemistry is also desirable.

32. Marketing Live Stock.—Marketing live stock and their products. Advertising and sale of surplus pedigreed live stock. (Certain inspection trips are required of the class. The expense of these trips is about \$15.00.) *II*; (2).

Professor MUMFORD, Mr. WILCOX

Prerequisite: Two years of university work. At least 4 credits in Animal Husbandry 1a, 2a, 4a, and 11a. See note at beginning of description of animal husbandry courses.

33. Animal Husbandry Practicums.—The operations necessary in the barn and stable management of live stock. One hour credit will be given for each two classes of live stock elected. *II*; (1-2).¹

Heads of divisions

Prerequisite: Limited to senior students specializing in animal husbandry.

Courses for Graduates

Students entering graduate work in animal husbandry must have a thoro training in the fundamental principles of the subject either in connection with or in addition to a course of study in agriculture substantially equivalent to that offered in this University.

103. Live Stock Experimentation.—Objects, methods, and the sources of error in experimental work dealing with the feeding, breeding, and management of farm animals. *Once a week; I, II; (½ unit).*

Professor DAVENPORT

[110. Animal Nutrition.—Biochemistry, digestion, metabolism, and nutritive value of the proteins. Lectures; seminar. *Twice a week; I, II; (1 unit).* *Alternates with Animal Husbandry 111.* Not given, 1916-17.

Professor GRINDLEY, Dr. MITCHELL

111. Animal Nutrition.—Biochemistry, digestion, metabolism, and nutritive value of the fats and lipoids, the carbohydrates, and the inorganic substances. Lectures; seminar. *Twice a week; I, II; (1 unit).*

Professor GRINDLEY, Dr. MITCHELL

112. Research.—Opportunity is afforded to pursue investigations along the following lines:

- (a) Economic factors involved in meat production.

Professor MUMFORD, Professor COFFEY, Assistant Professor RUSK

- (b) Systems of live stock farming.

Assistant Professor HANDSCHIN

- (c) The valuation of pedigrees.

Professor MUMFORD

- (d) Animal Nutrition. The chemistry of feeding stuffs; metabolism experiments and biochemical studies connected with the nutrition of farm animals.

Professor GRINDLEY, Dr. MITCHELL

- (e) Genetics. Problems in heredity and variation.

Assistant Professor DETLEFSEN

- (f) Factors affecting the quality, quantity, strength, and condition of wool.

Professor COFFEY

(a), (b), (c), and (f) one to three times a week; (d) and (e) five times a week; *I, II; (1 to 2 units).*

¹In registering for a course with variable credit hours, a student must put down on his study-ist, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 1-2, but, 1, or 2.

117. Genetics.—Study and criticism of genetic experiments, biological and mathematical methods employed, and the validity of the conclusions. *Three to five times a week; I, II; (1 to 2 units).* Assistant Professor DETLEFSEN

FARM MANAGEMENT

1. Elementary Farm Management.—The factors of production; systems of farming, their distribution and adaptation; organization; the distribution of capital; planning the farm; administration or operation; planning of work; labor; management efficiency. Lectures; quiz. (The trip required in this course is the same as in Animal Husbandry 29.) *II; (3).*

Assistant Professor HANDSCHIN, Mr. ANDREWS

Prerequisite: Three semesters of required work; Economics 1 or 2 and Accountancy 11.

It is also very important that the student have credit or be registered in Agronomy 12, and have at least 6 hours credit in Animal Husbandry 1b, 2b, 4b, or 11b.

ARCHITECTURE

LORING HARVEY PROVINCE, B.S., A.E., *Professor*

NATHAN CLIFFORD RICKER, D.Arch., *Professor, Emeritus*

NEWTON ALONZO WELLS, M.P., *Professor, Architectural Decoration*

JAMES McLAREN WHITE, B.S., *Professor, Architectural Engineering, Supervising Architect*

PERCY ASH, B.S., C.E., *Assistant Professor, Architectural Design*

WILLIAM CALDWELL TITCOMB, A.B., B.S., *Assistant Professor, Architecture*

CHARLES RICHARD CLARK, B.S., M.Arch., *Assistant Professor, Architectural Construction*

ROBERT TAYLOR JONES, B.S., *Associate, Architecture*

RHODES ROBERTSON, A.B., M.Arch., *Associate, Architectural Design*

WILLIAM SIDNEY WOLFE, B.S., M.S., *Instructor, Architectural Engineering*

RALPH STANLEY FANNING, B.S., *Instructor, Architectural Design*

WILLIAM MACEY STANTON, B.S., M.S., *Instructor, Architectural Design*

CARL VICTOR BURGER, B.Arch., *Instructor, Freehand Drawing*

LEMUEL CROSS DILLENBACK, A.M., *Instructor, Architectural Design*

RALPH EDWARD MUEHLMAN, *Instructor, Architectural Design*

OWEN J T SOUTHWELL, M.S., *Instructor, Architectural Design*

CYRUS EDMUND PALMER, M.S., *Instructor, Architectural Engineering*

JOSEPH EDWIN BURGESS, B.P., *Instructor, Freehand Drawing*

WINIFRED FEHRENKAMP, B.L.S., *Librarian*

13, 14, 15, 16. History of Architecture.—Effects of political, economic, and local conditions; material, climate, structural systems, the various countries and periods; evolution of forms. Illustrated lectures; quizzes. *I, II; (2).*

Professor RICKER

Prerequisite: Sophomore standing in architecture or architectural engineering, or Architecture 31 and 32.

23-24. Freehand Drawing.—Charcoal drawing from the cast. Water color work. *Six hours drawing a week. I, II; (2).* Mr. BURGER, Mr. BURGESS

Prerequisite: Architecture 32.

25. Freehand Drawing.—Arrangement of form and color; rhythm and sequence; harmony and contrast. *Six hours drawing a week. I; (2).* Mr. BURGER

Prerequisite: Architecture 23-24.

26. Freehand Drawing.—Charcoal, pen, pencil, and water color drawing from the cast and from still life. Out-of-door sketching. *Six hours drawing a week. II; (2).* Mr. BURGER

Prerequisite: Architecture 23-24.

27. Freehand Drawing.—Sketching from still life; proportions. *Six hours drawing a week. I; (2).* Professor WELLS

Prerequisite: Architecture 25-26.

28. Freehand Drawing.—Water color; original decorative composition; out-of-door sketching. *Six hours drawing a week. II; (2).* Professor WELLS

Prerequisite: Architecture 25-26.

31. Architectural and Freehand Drawing.—Instruments, pen, pencil, and brush; lettering; shades and shadows; perspective. Charcoal drawing from the cast. *One lecture and ten hours drawing a week. I; (4).*

Mr. MUEHLMAN, Mr. FANNING, Mr. BURGER

Prerequisite: Registration in General Engineering Drawing 2.

32. Architectural and Freehand Drawing.—Elements of architecture; walls, mouldings, doors, windows, the Orders, vaults, roofs, stairs. Wash rendering, stereotomy, charcoal drawing from the cast. Lectures and sketching. *One lecture and ten hours of drawing a week. II; (4).*

Mr. MUEHLMAN, Mr. FANNING, Mr. BURGER

Prerequisite: Architecture 31.

33-34. Design.—(Elementary.) Rendered order and sketch problems involving simple composition; library research in elements of composition. *One lecture and nine hours of drawing a week. I, II; (3).*

Assistant Professor TITCOMB, Mr. ROBERTSON, Mr. STANTON

Prerequisite: Architecture 31, 32.

35-36. Design.—(Intermediate.) Rendered plan and sketch problems; library research in plan and interior elements. *Fifteen hours of drawing a week. I, II; (5).*

Assistant Professor TITCOMB, Mr. ROBERTSON, Mr. STANTON

Prerequisite: Architecture 33-34.

37. Design.—(Advanced.) Original design. *Twenty-one hours of drawing a week. I; (7).* Assistant Professor ASH

Prerequisite: Architecture 35-36.

38. Advanced Design or Thesis.—An extended original problem in design or construction. *Twenty-one hours of drawing a week. II; (7).*

Assistant Professor ASH

Prerequisite: Architecture 37.

43. Working Drawings.—Woods; structural and decorative properties; detailing on a large scale; floors, walls, roofs, doors, windows, cornices, stairs, wainscoting, cabinet-work, interior finish. Kidder's *Building Construction, Part II*. *Two lectures and four hours of drawing a week. I; (3).* Mr. JONES, Mr. FANNING

Prerequisite: General Engineering Drawing 2; Architecture 31, 32.

44. Working Drawings.—Materials for stone masonry; kinds of masonry and external finish; tools for stone cutting; brick masonry; terra cotta; columns, beams,

girders, and footings; joints and connections. Kidder's *Building Construction and Superintendence, Part I. Two lectures and four hours of drawing a week. II; (3).*

Mr. JONES, Mr. FANNING

Prerequisite: General Engineering Drawing 2; Architecture 31, 32, 43.

45. Graphic Statics.—Trussed roofs, steel and masonry arches, domes. The graphical representation of reactions, bending moments, shear and deflection in beams. (For architects.) *One lecture and six hours of drawing a week. I; (3).*

Assistant Professor CLARK, Mr. WOLFE

Prerequisite: Theoretical and Applied Mechanics 14, 15, 16. Architecture 43, 44.

46. Roofs.—Wooden and steel roofs; determination of section of members; design of joints; mill and steel skeleton construction. *One lecture and six hours of drawing a week. II; (3).*

Assistant Professor CLARK, Mr. WOLFE

Prerequisite: Architecture 45.

55. Building Sanitation.—Plumbing, trap ventilation, removal of wastes; water closets; drains and systems of water supply; sewage disposal; water supply and fixtures in dwellings. (For architects.) Cosgrove's *Principles and Practice of Plumbing*. Recitations; lectures; designs for special problems. *I; (1).*

Mr. JONES

Prerequisite: Physics 9a-9b, 10a-10b; Architecture 43, 44.

59. Domestic Architecture.—(Given in connection with Household Science 2.) Lectures; criticism. *I.*

Assistant Professor ASH, Assistant Professor CLARK

60. Special Lectures.—Special lectures on architectural subjects. (For architects.) *II; (1).*

Assistant Professor CLARK

Prerequisite: Senior standing.

65-66. Theory of Architecture.—Influence of function on architectural form; plan and elevation; problem analysis. Lectures; research; exercises. *I, II; (1).*

Professor WELLS

Prerequisite: Registration in Architecture 25, 26.

67. Theory of Form.—Arrangement of form; architectural ornament and composition, proportion and balance. *Six hours of drawing a week. I; (2).*

Professor WELLS

Prerequisite: Senior standing in architecture.

68. Specifications.—General and special clauses and their arrangement; classifying material to facilitate writing specifications; practise in writing several sets; relations of the architect, owner, and builder; office organization; building ordinances; professional ethics. (For architects.) *II; (3).*

Assistant Professor PROVINE, Professor CLARK

Prerequisite: Senior standing in architecture.

99. Inspection Trip.—*I; (no credit).*

Prerequisite: Senior standing.

Courses for Graduates

Entrance on graduate work in architecture presupposes the full under-graduate course in that subject. Semi-weekly conferences are held and additional instruction given in all courses as may be required.

101. Architectural Construction.—Design of special structures. *I, II.*

Professor RICKER, Professor PROVINE

102. **Sanitation of Buildings.**—The planning of sanitation, warming, and ventilation. *I, II.*
Professor RICKER, Mr. CLARK

103. **Advanced Architectural Graphics.**—Graphic statics. Unusual types of footings, columns, and trusses. *I or II.*

Professor RICKER, Professor PROVINCE

104. **Architectural Design.**—Advanced course. *I or II.*

Assistant Professor ASH

105. **Architectural Practise.**—Contracts, specifications, and office methods; architectural jurisprudence. *I or II.*

Professor RICKER, Professor PROVINCE

106. **Advanced Architectural History.**—Special research. *I or II.*

Professor RICKER

ARCHITECTURAL ENGINEERING

33. **Architectural Drawing.**—Lettering, elements of architecture; walls, mouldings, doors, windows, shades and shadows, perspective, the Orders, vaults, roofs, stairs, wash rendering, stereotomy, charcoal, drawing from the cast. Lectures and sketching. *Nine hours of drawing a week. I; (3).*

Mr. SOUTHWELL

Prerequisite: General Engineering Drawing 1, 2.

34. **Design.**—(Elementary.) Rendered order and sketch problems; library research. *Nine hours of drawing a week. II; (3).*

Mr. SOUTHWELL

Prerequisite: Architectural Engineering 33.

35-36. **Design.**—(Intermediate.) Rendered plan and sketch problems; library research. *Nine hours of drawing a week. I, II; (3).*

Mr. DILLENBACK

Prerequisite: Architectural Engineering 33, 34.

43. **Working Drawings.**—Woods; structural and decorative properties; floors, walls, roofs, doors, windows, cornices, stairs, wainscoting, cabinet-work, interior finish. (For architectural engineers.) *One recitation and three hours of drawing a week. I; (2).*

Mr. JONES, Mr. FANNING

Prerequisite: Architectural Engineering 31; General Engineering Drawing 2.

44. **Working Drawings.**—Materials for stone masonry; kinds of masonry and external finish; tools for stone cutting; brick masonry; terra cotta; columns, beams, girders; joints and connections. *One recitation and three hours of drawing a week. II; (2).*

Mr. JONES, Mr. FANNING

Prerequisite: Architectural Engineering 33, 43; General Engineering Drawing 1, 2.

45. **Graphic Statics.**—Elements, and applications to forces; beams under fixed and moving loads. *One lecture and six hours of drawing a week. I; (3).*

Assistant Professor CLARK, Mr. PALMER

Prerequisite: Theoretical and Applied Mechanics 20; registration in Theoretical and Applied Mechanics 25. Architectural Engineering 43, 44.

46. **Advanced Graphic Statics.**—The analysis of masonry arches, domes, and vaults; large and unusual forms of roof trusses. *One lecture and six hours of drawing a week. II; (3).*

Assistant Professor CLARK, Mr. PALMER

Prerequisite: Architectural Engineering 45.

47. **Architectural Engineering.**—Design and working drawings of trusses,

members and joints, plate girders, chimneys; investigations of wind bracing. *Fifteen hours of drawing a week or the equivalent.* I; (5).

Mr. WOLFE, Mr. PALMER

Prerequisite: Theoretical and Applied Mechanics 26; Architectural Engineering 44, 46.

48. **Architectural Engineering.**—Design and detail of footings; investigation of framed structures; working drawings. *Fifteen hours of drawing a week or the equivalent.* II; (5).

Mr. WOLFE, Mr. PALMER

Prerequisite: Architectural Engineering 47.

57. **Fireproof Construction.**—Principles and design of fireproof construction; the advantages of each type. *Two lectures or recitations a week.* I; (2).

Assistant Professor CLARK

Prerequisite: Theoretical and Applied Mechanics 26; Architectural Engineering 44, 46; registration in Architectural Engineering 47.

58. **Fireproof Construction.**—(Continuation of first semester's work.) Details and working drawings. *Six hours of drawing a week.* II; (2).

Assistant Professor CLARK

Prerequisite: Architectural Engineering 47, 57; registration in Architectural Engineering 48.

67. **Building Sanitation.**—Plumbing, trap ventilation, removal of wastes; water closets; drains and systems of water supply; sewage disposal; water supply and fixtures in all types of buildings. (For Architectural Engineers.) Cosgrove's *Principles and Practise of Plumbing*. Recitations, lectures and quizzes; designs for special problems. I; (2).

Mr. JONES

Prerequisite: Physics 1a-3a, 1b-3b. Architectural Engineering 43, 44.

68. **Estimates and Specifications.**—Methods of estimating, illustrated by problems; specifications, their general and special clauses, and arrangement; relations of architect, owner, and builder. (For architectural engineers.) *Four recitations a week.* II; (4).

Professor PROVINE, Assistant Professor CLARK

Prerequisite: Senior standing in architectural engineering.

99. **Inspection Trip.**—I; (no credit).

Prerequisite: Senior standing.

ART AND DESIGN

EDWARD JOHN LAKE, B.S., *Assistant Professor*

CHARLES EARL BRADBURY, B.P., *Associate*

MARY MINERVA WETMORE, *Instructor*

GIDEON ROBERT FORBES, M.L.A., *Instructor*

1. **Freehand Drawing.**—Practise drawing in charcoal and pencil; perspective principles with application; light, shadows, shade, and reflections in monochrome; lectures and reference reading on graphical representation and the reproductive processes in printing. I or II; (3).

Assistant Professor LAKE, Mr. BRADBURY, Mr. FORBES

2. **Light and Shade.**—Shaded drawing in monochrome in preparation for painting in oils and water-colors, with emphasis on values and composition. II; (2).

Mr. BRADBURY

Prerequisite: Art and Design 1.

3a-3b. Drawing from the Antique.—Practise drawing from plaster models and from life of anatomical forms in monochrome in preparation for painting the human figure; anatomical proportion and construction, with lectures on proportion, construction, composition, and action in the representation of the human figure. Either semester may be taken separately. *I, II; (3).*

Mr. BRADBURY

Prerequisite: Art and Design 1.

4a-4b. Water Color Painting.—Practise painting of still-life; flowers, and sketching out-doors, with application to pictorial and decorative art. *I, II; (3).*

Miss WETMORE

Prerequisite: Art and Design 1, 2.

5a-5b. Drawing from Life.—Drawing in monochrome from life, with application to pictorial and decorative purposes. *I, II; (3).*

Miss WETMORE

Prerequisite: Art and Design 1, 3a or 3b.

6a-6b. Portrait in Oil Colors.—Painting in oil colors from costumed model, with special attention to portrait and character study. *I, II; (3).*

Miss WETMORE

Prerequisite: Art and Design 1, 3a or 3b, 5a-5b.

6c. Portrait in Oil Colors.—(Advanced course.) A continuation of 6a-6b. *II; (3).*

Miss WETMORE

Prerequisite: Art and Design 1, 3a or 3b, 5a-5b.

7a-7b. Still-Life in Oil Colors.—Practise painting of still-life; flowers and sketching out-doors in oil colors, with application to pictorial and decorative art. *I, II; (3).*

Miss WETMORE

Prerequisite: Art and Design 1, 2.

7c. Still-Life in Oil Colors.—(Advanced course.) A continuation of 7a-7b. *II; (3).*

Miss WETMORE

Prerequisite: Art and Design 1, 2.

8a-8b. Modeling.—Clay modeling of anatomical and decorative forms; the making of plaster molds and models; relative study of sculptural art. *I, II; (3).*

Assistant Professor LAKE

Prerequisite: Art and Design 1.

10. Sketching.—Practise in pen, pencil; monochrome wash or charcoal rendering from landscape, still-life, and figure, with especial attention to the requirements for reproduction. *I or II; (1).*

Mr. BRADBURY

Prerequisite: Art and Design 1.

12. Design.—Lectures on the theory of pure design and the effect of material on execution; the fitness of various forms of media for different sorts of design; space division and space relations; color; color schemes and exercises; conventionalization of natural forms for various functions; practise in execution. *I or II; (2).*

Mr. FORBES

Prerequisite: Art and Design 1.

14. Design.—(Advanced Practise.) Designs executed on a special field and in a medium selected by the student. Extended study of a chosen field of design. *I or II; (3).*

Mr. FORBES

Prerequisite: Art and Design 1, 12.

19. History of the Fine Arts.—The periods and styles of the arts of architecture, sculpture, and painting previous to the Italian Renaissance. *I; (2).*

Assistant Professor LAKE

Prerequisite: One year of college work.

20. History of the Fine Arts.—The periods and styles of the arts of architecture, sculpture, and painting of the Italian Renaissance and to the present time. *II*; (2).

Assistant Professor LAKE

Prerequisite: One year of college work.

Summer Session Courses

S 1. Elementary.—Form drawing from still-life, cast, and nature; principles of outline and shading in pencil, charcoal, and crayon; lectures on perspective. (2).

Assistant Professor LAKE

S 12. Design.—The theory of pure design and the effect of material on execution; the fitness of different forms of media for different sorts of design; space division and space relations; color; color schemes and exercises; conventionalization of natural forms for various functions; practise in execution. (2).

Assistant Professor LAKE

S 20. History of the Fine Arts.—The periods and styles of architecture, sculpture, and painting during the Italian Renaissance and up to the present time. (2).

Assistant Professor LAKE

ASTRONOMY

JOEL STEBBINS, Ph.D., *Professor*

FRANK WALKER REED, Ph.D., *Instructor*

PETER HORATIO LUCAS, A.B., *Research Assistant*

No major is offered in astronomy. Students may well make mathematics or physics their major, and take Astronomy 7, 8, 14, and 15 as a minor.

Upper classmen without mathematical training may elect Astronomy 1. Astronomy 4 is for beginners but requires trigonometry. Credit is not given for both 1 and 4. Other courses should be taken in the order: 3, 15, 14, 7, 8.

Courses for Undergraduates

1. Elementary Astronomy.—Lectures; recitations; one evening a week at the observatory. *I*; (3).

Professor STEBBINS

Prerequisite: Sophomore standing.

3. Astronomy for Engineers.—Rough and accurate determinations of latitude, azimuth, and time, especially with the ordinary surveyor's transit; the art of computing. *II*; (3).

Professor STEBBINS

Prerequisite: Junior standing.

4. General Astronomy.—Lectures; recitations; two evenings a week at the observatory. *II*; (5).

Dr. REED

Prerequisite: Mathematics 4.

For Advanced Undergraduates and Graduates

7-8. Theoretical Astronomy.—Celestial mechanics; theory of orbits; perturbations; canonical transformations. *I, II*; (3).

Dr. REED

Prerequisite: Mathematics 9.

[9-10. Celestial Mechanics.—Properties of canonical systems of differential equations; integration by series; periodic and asymptotic solutions; integral invariants. *I, II*; (3). Not given, 1916-17.

Dr. REED

Prerequisite: Mathematics 16; Astronomy 7-8.]

14. Observational Astronomy.—The working methods of an astronomical observatory; individual problems. *II*; (3). Professor STEBBINS

Prerequisite: Astronomy 15.

[15. Geodetic Astronomy.—The sextant, transit, and zenith telescope; methods similar to those of the United States Coast Survey. *I*; (3). Not given, 1916-17. Professor STEBBINS

Prerequisite: Mathematics 7.]

Courses for Graduates

101. Seminar and Thesis.—*Three times a week; I, II; (1 unit).*

Professor STEBBINS

[102. Stellar Astronomy.—Orbits of binary stars; variable stars; theoretical photometry. *Three times a week; I, II; (1 unit).* Not given, 1916-17.

Professor STEBBINS]

BACTERIOLOGY

(See also BOTANY)

JOEL ANDREW SPERRY, 2d, Ph.D., *Associate*

FRED WILBUR TANNER, Ph.D., *Instructor*

CECIL ROBERT GROSS, B.S., *Assistant*

EDWIN F. VOIGT, B.S., *Assistant*

NOTE.—No major is offered for the present in Bacteriology.

1. Elementary Bacteriology.—Laboratory methods; technique and observations on the morphology and general physiology of bacteria and allied microorganisms. Open only to students in the College of Agriculture and in the Medical College curriculum. *I*; (3). Dr. SPERRY, Mr. VOIGT

Prerequisite: Chemistry 2a.

5. Introductory Bacteriology.—Morphology and physiology of bacteria and related microorganisms; technique of cultivation and observation. *I* or *II*; (5).

Dr. TANNER, Mr. GROSS, Mr. VOIGT

Prerequisite: Chemistry 2a.

6. Bacteriology for Sanitary Engineers.—Bacteriological and microscopical methods applied to the examination of water and sewage. Filtration, sterilization, and filter control. *I*; (2½).

Dr. SPERRY, Dr. TANNER

Prerequisite: Chemistry 10b.

Courses for Advanced Undergraduates and Graduates

8. Applied Bacteriology.—Decay of organic matter in nature; soil and sewage bacteria; food bacteria; water bacteria; pathogenic bacteria. Laboratory; lectures; assigned readings; reports. *II*; (5). Dr. TANNER

Prerequisite: Bacteriology 5 or its equivalent; Chemistry 9.

18a-18b. Journal Meeting.—Required of all students specializing in bacteriology. *I, II*; (1). Dr. SPERRY

Prerequisite: Bacteriology 5, or equivalent.

20. General Bacteriology.—(For advanced students who do not major in bacteriology.) Laboratory methods, technics of cultivation and observation and study of biochemical reactions. Laboratory; lectures; assigned readings; reports

from Lafar's *Handbuch der technischen Mykologie*, and Kruse's *Allgemeine Mikrobiologie*. Replaces Bacteriology 19. Not open to students who have had Bacteriology 5. I; (5). Dr. TANNER

Prerequisite: Two years of college chemistry and senior standing.

26. **Pathological Bacteriology.**—The disease producing organisms, their effect on the animal, and the reaction of the host. Lectures; laboratory. II; (3). Dr. SPERRY

Prerequisite: Bacteriology 1 or 5; junior standing.

27. **Epidemiology.**—The ways in which communicable diseases are spread; methods of control. Lectures. I; (2). Dr. SPERRY

Prerequisite: Bacteriology 5; junior standing.

Courses for Graduates

The work outlined below is open only to graduate students who have had at least one year's work in bacteriology, and satisfactory training in chemistry.

[103. **Physiology of Bacteria.**—Fermentation; growth and death of bacteria. I; (1 unit). Not given, 1916-17. Dr. SPERRY]

105. **Classification of bacteria.**—Variability of species; characters; mutations; standard and biometrical classifications. II; (1 unit). Dr. SPERRY

107. **Research in Bacteriology.**—The physiology of bacteria; food bacteriology. I, II; (1 or 2 units). Dr. SPERRY

BANKING

(See ECONOMICS.)

BIOLOGY

(See BOTANY, ENTOMOLOGY, PHYSIOLOGY, and ZOOLOGY.)

BOTANY

(See also BACTERIOLOGY.)

WILLIAM TRELEASE, D.Sc., LL.D., *Professor*
 CHARLES FREDERICK HOTTES, Ph.D., *Professor*
 FRANK LINCOLN STEVENS, Ph.D., *Professor*
 JOEL ANDREW SPERRY, 2d., Ph.D., *Associate Bacteriology*
 STELLA MARY HAUGE, Ph.D., *Instructor*
 WALTER BYRON McDougall, Ph.D., *Instructor*
 FRED WILBUR TANNER, Ph.D., *Instructor, Bacteriology*
 NORA ELIZABETH DALBEY, A.M., *Assistant*
 FORREST ELLWOOD KEMPTON, M.S., *Assistant*
 WILLIAM EUGENE PICKLER, A.B., *Assistant*
 LEE ELLIS MILES, A.B., *Assistant*
 WALTER SPURGEON BEACH, M.S., *Assistant*
 ESTHER YOUNG, A.M., *Assistant*
 CECIL ROBERT GROSS, B.S., *Assistant, Bacteriology*
 HARRY WARREN ANDERSON, A.M., *Assistant*
 MARY EMMA RENICH, A.M., *Assistant*
 RICHARD ALONZO GANTZ, A.B., *Assistant*
 TRUMAN GEORGE YUNCKER, A.M., *Assistant*
 LEO ROY TEHON, A.B., *Assistant*
 EDWIN FREDERICK VOIGT, B.S., *Assistant, Bacteriology*

Major: 20 hours exclusive of Botany 1 and 4, made up of courses grouped along one of six lines, according to the suggestions given below.

Minor: 20 hours chosen from chemistry, entomology (exclusive of 1a and 1b), geology, physics, physiology, and zoology. At least eight hours must be offered in one subject.

Courses offered are of four types; the first intended to meet the needs of beginners; the second laying a foundation for methods of accuracy in observation, manipulation, and experimentation through the study of some fundamentally important subdivision of the science; the third giving practise in methods of investigation by the study of advanced problems varied to suit the needs and interests of the student; and the fourth teaching independent research by means of thesis subjects leading to the discovery of new facts or laws.

The work of any semester may be credited separately except when a problem is left incomplete in one of the courses open to graduates.

For the convenience of undergraduates in the College of Liberal Arts and Sciences who elect major work in botany the following combinations of courses are suggested: (a) General; 2a, 4a, 23, 27a or 27b; (b) Specializing in morphology; 2a, 2b, 3a, 4a, 4b, or 24; (c) Specializing in pathology; 2a or 3a, 7a, 7b, 28a or 28b, 4a, or 17a-17b, or 21; (d) Specializing in physiology; 3a, 27a-27b, 9a or 9b; (e) Specializing in taxonomy; 2a, 4a or 4b, 16a-16b, or 17a-17b, or 26a-26b, or 28a-28b; (f) Specializing in ecology; 4a, 23, 24, 25a, or 25b, and 27a, or 27b.

Students taking botany as a foundation for agronomy or horticulture are advised to select courses 1, 3a, or 27a, 4a, 7a, and advanced work on some special topic or topics under courses 7b, 9, 17a-17b, or 22b. Students who expect to teach botany are advised to elect 2a, 4a, 23, 27a-27b, and advanced work in one or more of the special courses 9a-9b, 16a-16b, 17a-17b, or 25a-25b.

Courses for Undergraduates

1. General Botany.—The structure, physiology, natural history, and uses of plants. Lectures, quiz, laboratory. *Students are advised to complete elementary chemistry before taking this course.* I or II; (5).

Professor TRELEASE, Dr. MCDUGALL, and assistants

2a. Morphology of Thallophytes.—The lower plants. Laboratory. I; (5).

Dr. HAGUE

Prerequisite: Botany 1.

2b. Morphology of Cormophytes.—The higher plants. Laboratory. II; (5).

Dr. HAGUE

Prerequisite: Botany 1.

3a. Plant Anatomy, Histology, and Technique.—Plant structure; protoplasts; the nucleus; fixing, sectioning, staining, and examining tissues, modeling from serial sections; photomicrography. II; (5).

Professor HORRES

Prerequisite: Botany 1.

4. The Local Flora.—Morphology, identification, and classification of wild plants. Laboratory; field work. (For students desiring acquaintance with the plants of Illinois, and especially for those qualifying as teachers in the public schools.) II; (3).

Dr. HAGUE

Prerequisite: Entrance botany or its equivalent.

4a. Taxonomy of Cormophytes.—Structure, identification and classification of higher plants. Laboratory; field work on flowering plants, and weeds. *II*; (5).

Professor TRELEASE

Prerequisite: Botany 1.

4b. Taxonomy of Algae and Bryophytes.—Structure, identification, and classification. *I*; (5).

Dr. HAGUE

Prerequisite: Botany 1.

4d. Trees and Shrubs of the Campus.—The woody plants most used for decorative purposes. *I*; (3).

Professor TRELEASE

Prerequisite: Botany 1.

7a. Plant Pathology.—Causal agents, symptoms, diagnosis, and treatment. *I*; (5).

Professor STEVENS

Prerequisite: Botany 1.

20. Plant Diseases.—More important diseases of commonly cultivated plants; diagnosis and treatment. Lectures and laboratory. (Credit in the College of Agriculture only.) *II*; (3)

Professor STEVENS

Prerequisite: Botany 1.

[21. Crop Diseases.—Structure, identification, and treatment. *I*; (3). Not given in 1916-17.

Professor STEVENS

Prerequisite: Botany 20 or 7a.]

23. Plant Ecology.—The life of plants in their natural habitats, in relation to environment, to animals, and to each other. Lectures; laboratory; field work. *I*; (3).

Dr. McDUGALL

Prerequisite: Botany 1.

24. Taxonomy and Ecology of the Higher Fungi.—Structure, identification, classification, and ecological relations. Special attention is given to edible and poisonous mushrooms. Lectures; laboratory; field work. *II*; (3).

Dr. McDUGALL

Prerequisite: Botany 1.

27a. Plant Physiology.—The absorption of materials from the external world and their transformation within the organism; the production and use of food. *I*; (5).

Professor HOTTES

Prerequisite: Botany 1.

27b. Plant Physiology.—The response of the plant to external stimuli. *II*; (3).

Professor HOTTES

Prerequisite: Botany 1.

Courses for Advanced Undergraduates and Graduates

Students who take courses open for credit to graduates are advised to register also for Botany 10a-10b, the weekly meeting devoted to current literature in botany, which is obligatory for candidates for an advanced degree with botany as a major subject.

Candidates for advanced degrees in botany must offer for admission to the graduate courses at least 20 hours of college work in botany, exclusive of Botany 1, and inclusive of courses 2a, 4a, 27a, or 27b and either 7a, 9b, 17a, or 17b, or equivalent.

Graduate students who elect botany for minor credit must offer the equivalent of 10 hours of college work in botany, exclusive of Botany 1, as a prerequisite to the courses listed for advanced undergraduates and graduates.

7b. Methods in the Study of Fungi.—Methods of isolation, cultivation, and inoculation of fungi and bacteria. *II*; (5). Professor STEVENS

Prerequisite: Ten hours of botany, including Botany 7a; junior standing.

9a-9b. Plant Anatomy or Physiology.—Problems for those specializing either in anatomy with technics, or in physiology, or in the application of these to plant breeding, crop production, and forestry. *I, II*; (3 or 5).¹

Professor HOTTES

Prerequisite: 10 hours of Botany, including Botany 3a; junior standing.

10a-10b. Current Botanical Literature.—A weekly review covering the field of botany; supplementary to the various seminar conferences. *I, II*; (1).

Professor TRELEASE, Professor HOTTES, Professor STEVENS, Dr. HAGUE, Dr. McDUGALL

Prerequisite: Concurrent taking of some course in botany open for graduate credit.

16a-16b. Taxonomy of Algae and Bryophytes.—Advanced practise on selected groups. *I, II*; (3 or 5).¹ Dr. HAGUE

Prerequisite: 10 hours of botany, including 2a or 4b; junior standing. For graduate students in chemistry, 5 hours of biology and 10 hours of physical science, including manipulation of instruments, or 15 hours of physical science.

17a-17b. Taxonomy and Ecology of Cormophytes.—Advanced practise on selected taxonomic, ecological, or economic groups. Genera or families of Illinois plants, ecological association or adaptations, or plants economically important as weeds, forest resources, adjuncts to medicine, farm, orchard, or garden crops, or as the basis of floriculture, landscape architecture, street shading, or other decorative planting. *I, II*; (3 or 5).¹ Professor TRELEASE

Prerequisite: 10 hours of botany, including Botany 4a; junior standing.

[22a. Morbid Histology.—The parasites of plant tissues and their histology in condition of disease. *I*; (3 or 5).¹ Not given, 1916-17.

Professor STEVENS

Prerequisite: Botany 3a and 7a or 7b; junior standing.]

22b. Groups of Fungi and Crop Diseases.—*II*; (3 or 5).¹

Professor STEVENS

Prerequisite: 10 hours of botany, including 7a or 7b; junior standing.

25a-25b. Plant Ecology—Advanced studies in the ecology of plants or of plant communities. *I, II*; (3 or 5).¹ Dr. McDUGALL

Prerequisite: 10 hours of botany, including Botany 23; junior standing.

[26a-26b. Taxonomy of the Higher Fungi.—Advanced practise on selected groups. *I, II*; (3 or 5).¹ Not given in 1916-17. Dr. McDUGALL

Prerequisite: Botany 2a and 24; junior standing.]

28a-28b. Taxonomy of Economic Fungi.—Advanced practise on selected groups of parasitic fungi. *I, II*; (3 or 5).¹ Professor STEVENS

Prerequisite: 10 hours of botany, including Botany 7a; junior standing.

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

Courses for Graduates

101. Cytology.—The influence of external agents on the cell. Special subjects for investigation are assigned on consultation. Reports and discussions of current literature and research results. *I, II; (½ to 2 units)*. Not given, 1916-17.

Professor HOTTES]

102. Physiology.—The effects of external stimuli on growth and movement. Special subjects for investigation are assigned on consultation. Reports and discussions of current literature and research results. *I, II; (½ to 2 units)*.

Professor HOTTES

104. Mycology.—Fungi. Individual assignments of subjects and problems in field and laboratory. *I, II; (½ to 2 units)*.

Professor STEVENS

106. Plant Pathology.—Diseases of plants, and disease agents. Special subjects are assigned on consultation. *I, II; (½ to 2 units)*.

Professor STEVENS

108. Taxonomy.—Monographic studies of critical groups. *I, II; (½ to 2 units)*.

Professor TRELEASE

109. Ecology.—The interrelations of plants with their environment. Individual subjects for investigation. *I, II; (½ to 2 units)*.

Dr. McDUGALL

Summer Session Courses

S 7a. Plant Pathology.—Causal agents, symptoms, morbid histology, diagnosis and treatment and methods of study. (5).

Professor STEVENS, Mr. BEACH

Prerequisite: Entrance credit in botany, or botany 1.

S 4. The Local Flora.—Morphology, identification, and classification of wild plants. Laboratory; field work. (For students desiring acquaintance with the plants of Illinois, and especially for those qualifying as teachers in the public schools.) (3).

Professor STEVENS, Mr. BEACH

Prerequisite: Entrance botany or its equivalent.

***S 16a. Taxonomy and Ecology of Fungi.**—Advanced practise on selected groups of fungi or groups of host plants. (3 or 5).¹

Professor STEVENS

Prerequisite: 10 hours of botany including 4c or 7a or equivalent.

***S 104. Mycology.**—Individual assignments of subjects and problems in field and laboratory. (3 or 5).¹

Professor STEVENS

***S 106. Plant Pathology.**—Diseases of plants and disease agents. Special subjects are assigned on consultation. (3 or 5).¹

Professor STEVENS

BUSINESS LAW

(See BUSINESS ORGANIZATION AND OPERATION.)

BUSINESS ORGANIZATION AND OPERATION

(Including ACCOUNTANCY and BUSINESS LAW.)

LEWIS EMANUEL YOUNG, Ph.D., *Assistant Professor*

ROBERT ENOCH HIERONYMUS, A.M., LL.D., *Community Adviser; lecturer on commercial and civic organizations*

HIRAM THOMPSON SCOVILL, A.B., *Instructor*

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course, e. g., not 1-2, but 1, or 2.

HARRISON MCJOHNSTON, A.M., *Instructor*
ANANIAS CHARLES LITTLETON, A.B., *Instructor*
CHARLES LE DEUC, LL.B., Ph.D., B.A.M., *Instructor*
WILLIAM EVERETT BRITTON, A.M., J.D., *Instructor*
LLOYD MOREY, A.B., B.Mus., C.P.A., *Instructor*
GEORGE HILLIS NEWLOVE, A.M., *Assistant*
GEORGE BURR McMILLEN, A.B., *Assistant*
HENRY DIXON OBERDORFER, B.S., *Assistant*

A. ACCOUNTANCY

Courses for Undergraduates

1a-1b. Principles of Accounting.—Accounting and bookkeeping. Accounting procedure from single to double entry. (*Students who present one unit of bookkeeping for entrance will not be allowed credit for the first semester's work and should register for the second semester only.* Except in case of such students credit is not given for either semester separately.) *I, II; (3).*

Mr. SCOVILL, Mr. LITTLETON, Dr. LE DEUC, Mr. NEWLOVE, Mr. McMILLEN, Mr. OBERDORFER.

2a-2b. Advanced Accounting and Auditing.—Partnership and corporation accounts, depreciation, goodwill, reserves and sinking funds; special financial statements, reading balance sheets, illustrative problems. (*Credit is not given for either semester separately.*) *I, II; (3).*

Mr. SCOVILL, Mr. LITTLETON, Mr. NEWLOVE, Mr. MOREY

Prerequisite: Accountancy 1a-1b; Economics 7 or 26, 22 or 27; registration or credit in Economics 1.

3a-3b. Accounting Problems and Auditing.—Consolidated balance sheets; liquidation; the auditor's duties; schedules and reports. (*Credit is not given for either semester separately.*) *I, II; (3).*

Mr. SCOVILL,

Prerequisite: Accountancy 2a-2b; Economics 3; credit or registration in Business Organization and Operation 1.

4a-4b. Cost Accounting.—(a) Cost accounting applied to factory procedure, overhead expense, the installation and control of cost systems, presentation of cost data; (b) as a basis for manufacturing efficiency; (c) the construction of cost systems. *I, II; (2).*

Mr. SCOVILL

Prerequisite: Accountancy 2a-2b, Economics 1. For the current year, open also to juniors and seniors who have had Accountancy 1a-1b.

[5a-5b. C. P. A. Problems.—Representative problems of various types, including questions on theory and auditing. Credit is not given for either semester separately. *I, II; (2).* Not given, 1916-17.

Prerequisite: Accountancy 3a-3b.]

10. Shop Management and Shop Cost Records.—Cooperation between shop and cost departments; preparation and use of cost records; estimation of costs on contracts and calculation of profits. *II; (2).*

Mr. SCOVILL

Prerequisite: Open only to students in engineering who have had Economics 1 or 2.

11. Farm Accounting.—Accounting and distribution of costs as applied to farm operations; proper investment of funds. *I; (3).*

Mr. SCOVILL, Mr. NEWLOVE, Mr. McMILLEN

Prerequisite: Open only to students in agriculture who have had Economics 1 or 2.

13a-13b. Municipal and Institutional Accounting.—Budget making; appropriations; warrants; taxes; special assessments; system building; functional organization; control; reports; auditing. (The second semester's work may be taken without the first only on the approval of the instructor.) *I, II; (2).*

Mr. MOREY

Prerequisite: Accountancy 2a-2b.

Summer Session Course

S 15. Principles of Accounting.—(This course is not accepted in partial fulfillment of the requirement of Accountancy 1 in any University curriculum.) *(2).*

Mr. SCOVILL

Prerequisite: Elementary bookkeeping.

B. BUSINESS ORGANIZATION AND OPERATION

Courses for Undergraduates

1. Business Organization and Operation.—Individual proprietorship, partnership; and cooperation; the process of organizing a business; organization for operation and the reaction of form of organization on efficiency; graduation and interrelation of divisions and departments; departmental responsibility and authority, routine, and discipline. *I; (3).*

Assistant Professor YOUNG

Prerequisite: Economics 1 and Accountancy 2a-2b. For the present year students who have had Accountancy 1a-1b may be admitted on application to the instructor.

2. Organization and Control of Mercantile Distribution.—Problems of organization and management of wholesale and retail establishments. Supervision and control of mercantile distribution by business associations, by consumers, and by political units. *II; (2).*

Assistant Professor YOUNG

Prerequisite: Business Organization and Operation 1; Economics 28.

[3. Business Procedure.—Conventional business practises; cash and trade discounts; commissions; interest and discounts; forms and uses of checks, notes, drafts, and other instruments of credit and exchange; the rules and procedure of banking institutions; mercantile and credit agencies. Office organization and management. *I; (2).* Not given, 1916-17.

Assistant Professor YOUNG

Prerequisite: Business Organization and Operation 2.]

7. Salesmanship.—Policies and practise of modern sales organizations; selling problems of manufacturers, wholesalers, and retailers, management of salesmen; the practise of individual salesmen. *I; (2).*

Mr. McJOHNSTON

Prerequisite: Economics 1; Business Organization and Operation 1. For the present year former Economics 6 will be accepted in place of Business Organization and Operation 1.

8. Advertising.—Current practise; cooperation of advertising and personal selling; special problems; planning sales campaigns; choice of media; space buying; and practise in writing copy. *II; (2).*

Mr. McJOHNSTON

Prerequisite: Business Organization and Operation 7.

9. Commercial and Civic Organizations.—The history of trade and similar organizations; methods of organization; expansion and promotion; the relation of such association to the life and welfare of the community and to one another; pro-

motion of community welfare by common action; work and duties of the secretary and other officers; the legal status and recent results. (For students preparing for positions as secretaries of commercial or agricultural associations, civic or welfare clubs, and similar organizations.) *II*; (1). Dr. HIERONYMUS

Prerequisite: Economics 1; Business Organization and Operation 2 or Economics 28; or Economics 2 and Farm Management 1; or Economics 1, Political Science 4, and Sociology 8.

10. Organization and Operation of Newspaper Publishing.—Growth of the industry in the United States; number, kinds, and distribution of newspapers; national organization; large scale production; buying and selling advertising; circulation; cost accounting and office systems; mechanical organization and equipment; shop management and labor problems. (Primarily for students specializing in journalism.) *II*; (2). Dr. RUSSELL

Prerequisite: Economics 1; junior standing.

Course for Undergraduates and Graduates

4. Industrial Organization and Management.—Organization and administrative policy; supervision and management of industries and industrial units. Relations to labor, the community and law. *II*; (2). Assistant Professor YOUNG

Prerequisite: Business Organization and Operation 2. For the present year Economics 10 and Accountancy 1a-1b will be accepted instead of Business Organization and Operation 2. Senior engineering students who have had Economics 1 or 2 may be admitted by permission of the instructor.

Courses for Graduates

101. Regulation and Control of Mercantile Distribution.—Federal, state, and local regulation of mercantile business; unfair competition; trade agreements; trade mark; inspection of mercantile establishments; pure food acts; control over weights and measures, packing, storage, and shipment. *Twice a week; I; (1 unit)*. Assistant Professor YOUNG

[102. Scientific Management.—History; proposed systems; results of the application of scientific principles in the management of various types of business enterprise. *Twice a week; I, II; (1 unit)*. Not given, 1916-17.

Assistant Professor YOUNG]

C. BUSINESS LAW

Courses for Undergraduates

1a-1b. Commercial Law.—Contracts, negotiable instruments, agency, partnerships, business corporations, sales of personal property, bailments and carriers, guaranty and suretyship, and insurance. *I, II; (3)*. Dr. BRITTON

Prerequisite: Sixty hours of university credit, including Economics 1 and Accountancy 1a-1b.

2. Elementary Law.—Contracts; leases; landed property. (Open to junior and senior students in agriculture only.) *II*; (3). Dr. BRITTON

Prerequisite: Economics 1 or 2.

3. Business Law.—Contracts, negotiable instruments, agency, partnerships, corporations, sales of personal property, bailments and carriers, guaranty and surety-

ship, insurance, real property, and landlord and tenant. (Open to junior and senior students in engineering only.) *II*; (3). Assistant Professor YOUNG

Prerequisite: Economics 1 or 2.

Summer Session Course

S 1. Elementary Commercial Law.—Contracts, agency, partnerships, and other forms of business organization. (Not accepted for credit for students in the College of Commerce and Business Administration.) (2). Mr. SCOVILL

CERAMIC ENGINEERING

EDWARD WIGHT WASHBURN, Ph.D., *Professor, Ceramic Chemistry*

CULLEN WARNER PARMELEE, B.S., *Professor*

RALPH KENT HURSH, B.S., *Assistant Professor*

HOWARD C ARNOLD, A.M., *Instructor*

The courses offered by the department of ceramic engineering are designed to give a technical knowledge of the composition and properties of materials used in the manufacture of claywares, cements, glasses, and enamels, and to acquaint the student with the construction, equipment, and operation of ceramic plants.

Graduates of courses other than ceramic engineering who have the necessary prerequisites may take the following courses for minor credit: 3, 5, 6, 8, 10, 13, 14, 15, and 16.

Courses for Undergraduates

1. Ceramic Materials.—The properties of clays and other ceramic materials; identification of the varieties used in practical work. Lectures; laboratory. *I*; (3).

Professor PARMELEE, Mr. ARNOLD

Prerequisite: Chemistry 4.

2. Winning and Preparation of Clays.—Machinery and processes used in preparing clays for market or manufacture; cost data. *I*; (3). Mr. ARNOLD

Prerequisite: Chemistry 5a.

3. Industrial Calculations.—Chemical and physical calculations applying to the operation of furnaces, kilns, and dryers, temperature measurements; ceramic stoichiometry. *II*; (3). Assistant Professor HURSH

Prerequisite: Ceramic Engineering 1, 2; Physics 1a-1b and 3a-3b.

4. Drying and Burning.—Clay wares; types of construction of industrial dryers and kiln plants; chemical and physical processes involved. *I*; (4).

Assistant Professor HURSH

Prerequisite: Ceramic Engineering 1, 2, 3.

5. Ceramic Bodies.—Composition and properties of ceramic body mixtures; effects of various ingredients; development of special bodies. Lectures; laboratory. *II*; (5). Professor PARMELEE, Mr. ARNOLD

Prerequisite: Ceramic Engineering 1, 2.

6. Glazes.—Production of glazes and enamels; limits of composition; classification; properties and defects common to each class; effect of variation in composition; modes of application. Lectures; laboratory. *I*; (5).

Professor PARMELEE, Mr. ARNOLD

Prerequisite: Ceramic Engineering 3, 5.

8. Glass.—Raw materials, preparation, compounding, melting, and shaping; chemical principles involved in the manufacture and decoration of the various types of vitreous silicates. Lectures. *II*; (2). Professor PARMELEE

Prerequisite: Ceramic Engineering 6.

9. Ceramic Construction.—Plans, specifications, and estimates for ceramic equipment and industrial plants. *II*; (4). Assistant Professor HURSH

Prerequisite: General Engineering Drawing 2; Ceramic Engineering 3, 4.

10. Cements.—Cements, limes, plasters; composition; reactions; methods of manufacture and testing. *I*; (3). Assistant Professor HURSH

Prerequisite: Ceramic Engineering 1, 2, 3.

11. Thesis.—*II*; (3).

Professor WASHBURN, Professor PARMELEE, Assistant Professor HURSH

12. Designing and Shaping.—Die construction; templates; master and working molds for pressing, casting, and jiggering. *II*; (3). Mr. ARNOLD

Prerequisite: Ceramic Engineering 1, 2.

17. Physical Chemistry with special reference to its application to Ceramic Materials and Processes.—Lectures; discussions; assigned reading. *I*; (3). Professor WASHBURN

Prerequisite: Ceramic Engineering 3; Mathematics 8 or 7 and 9.

99. Inspection Trip.—Visits to industrial plants representative of various phases of ceramic work. *I*; (*no credit*).

Prerequisite: Senior Standing.

CHEMISTRY

WILLIAM ALBERT NOYES, Ph.D., LL.D., *Professor and Director*

SAMUEL WILSON PARR, M.S., *Professor*

HARRY SANDS GRINDLEY, D.Sc., *Professor*

EDWARD BARTOW, Ph.D., *Professor*

RICHARD CHACE TOLMAN, Ph.D., *Professor*

DAVID FORD MCFARLAND, Ph.D., *Associate Professor*

GEORGE MCPHAIL SMITH, Ph.D., *Assistant Professor*

HENRY CHARLES PAUL WEBER,¹ Ph.D., *Assistant Professor*

ROGER ADAMS, Ph.D., *Assistant Professor*

DUNCAN ARTHUR MACINNES, Ph.D., *Associate*

GEORGE DENTON BEAL, Ph.D., *Associate*

B SMITH HOPKINS, Ph.D., *Associate*

HOWARD BISHOP LEWIS, Ph.D., *Associate*

HORACE GROVE DEMING, Ph.D., *Associate*

HENRY JOHN BRODERSON, Ph.D., *Instructor*

GEORGE WALLACE SEARS, Ph.D., *Instructor*

JESSIE YEREANCE CANN, Ph.D., *Instructor*

OLIVER KAMM, Ph.D., *Instructor*

GERARD VAN ROSSEN, Ph.D., *Instructor*

FLOYD WILLIAM MOHLMAN,¹ Ph.D., *Instructor*

EDGAR WALLACE ENGLE, Ph.D., *Instructor*

THEODORE ROLLY BALL, Ph.D., *Instructor*

FREDERICK OSBAND ANDEREGG, Ph.D., *Instructor*

¹Resigned, February 28, 1917.

HERBERT E EASTLACK, Ph.D., *Instructor*
SCOTT CHAMPLIN TAYLOR, M.S., *Assistant*
LLOYD BRELSFORD HOWELL, A.B., *Assistant*
HARRY CLEVELAND KREMERS, M.S., *Assistant*
EDWIN ARTHUR REES, A.M., *Assistant*
GLENN SEYMOUR SKINNER, A.M., *Assistant*
JAY THOMAS FORD, M.S., *Assistant*
TERRENCE ONAS WESTHAEFER, M.S., *Assistant*
WALTER GERALD KARR, M.S., *Assistant*
ERNEST HENRY VOLLWEILER, A.M., *Assistant*
FRANK FARNSWORTH FOOTITT, M.S., *Assistant*
ALBERT WAFFLE OWENS, B.S., *Assistant*
FLOYD ELBA ROWLAND, A.M., *Assistant*
WILLIAM ALEXANDER VANWINKLE, B.S., *Assistant*
JOHN FREDERICK GROSS HICKS, M.S., *Assistant*
HENRY JOSEPH WIELAND, M.S., *Assistant*
HARRY JAMES BEATTIE, A.M., *Assistant*
RALPH EMERSON RINDFUSZ, A.M., *Assistant*
ALFRED RICHARD POWELL, A.M., *Assistant*
ARTHUR BLAINE HAW, B.S., *Research Assistant*
JAMES HARRIS OLEWINE, B.S., *Assistant*
LANSING SADLER WELLS, B.S., *Assistant*
HERBERT AUGUST WINKELMANN, B.S., *Assistant*
JOSEPH MARVIN BRAHAM, M.S., *Research Assistant*
PAUL ANDERS, *Assistant, Glass Blowing*
JAMES KEEL REED, A.B., *Graduate Assistant*
RUTH ELIZA OKEY, M.S., *Graduate Assistant*
LEONARD FRANCIS YNTEMA, A.B., *Graduate Assistant*
RALPH WILLIAM HUFFORD, A.B., *Graduate Assistant*
HELEN UPDEGRAFF, B.S., *Graduate Assistant*
LOUIS JORDAN, A.B., *Graduate Assistant*
MARGARET CAMPBELL PERRY, A.B., *Graduate Assistant*
JOHN BERNIS BROWN, B.S., *Graduate Assistant*
HERBERT EPHRAIM FRENCH, A.B., *Graduate Assistant*
CARL SHIPP MARVEL, A.M., *Graduate Assistant*
SARGENT GASTMAN POWELL, M.S., *Graduate Assistant*
CECIL WAYNE BOYLE, A.B., *Graduate Assistant*
WILLIAM LIONEL MCCLURE, A.B., *Graduate Assistant*
OTTO M SMITH, B.S., *Graduate Assistant*
HERMAN EDWARD REDENBAUGH, A.B., *Graduate Assistant*
LYNNE HERMAN ULICH, B.S., *Graduate Assistant*
ISAAC HOHN GODLOVE, A.M., *Graduate Assistant*
MINER MANLEY AUSTIN, A.B., *Graduate Assistant*
NORRIS FEY MURRAY, B.S., *Graduate Assistant*

Cooperating:

FRED WEAVER MUNCIE, Ph.D., *Associate, Floricultural Chemistry*
CLARENCE GEORGE DERICK, Ph.D., *Assistant Professor, Summer Session*
LAURENCE CRANE JOHNSON, Ph.D., *Research Assistant, Summer Session*
CHARLES HENRY HECKER, Ph.D., *Instructor, Summer Session*

Major: 20 hours, exclusive of chemistry 1, 1a, 1b, 4 and 16, and inclusive of courses in quantitative analysis and organic chemistry.

Minors: 20 hours, chosen from bacteriology, botany, geology, mathematics, philosophy, physiology, physics, and zoology.

Students taking chemistry at the University are advised to give at least one year to the subject, and this should include Chemistry 1 or 1a, 2a or 3a. Those continuing in the second year should take Chemistry 5a and 5b, or 13a and 25. In the third year Chemistry 14a, 14b, or 9, 9a, and 9b, or 9c, 31, and 33 should be taken. With these, more special courses may be taken if desired, but students are not advised to take the special courses unless they have had the fundamental work represented by the selection given above. Students who desire a training for professional work in chemistry, either as teachers or in its industrial applications, should take the curriculum in chemistry, or in chemical engineering.

Students who find it impossible to take more than one semester's work are requested to register for Chemistry 1 or 1a in the second semester rather than in the first.

1. Inorganic Chemistry.—The non-metallic elements. Noyes: *Text-book of Chemistry*. I or II; (5).

Professor NOYES, Dr. HOPKINS, Dr. DEMING, Dr. SEARS, Dr. CANN, Dr. ENGLE, Dr. ANDEREGG, and assistants.

NOTE.—Students who have credit for high school chemistry should register for Chemistry 1a.

1a. Inorganic Chemistry.—Lectures; recitations; laboratory. (For students who have had one year of high school chemistry.) I or II; (3).

Professor NOYES, Dr. HOPKINS, Dr. DEMING, Dr. SEARS, Dr. CANN, Dr. ENGLE, Dr. ANDEREGG, and assistants.

Prerequisite: One year of entrance chemistry. Students whose preparation proves to be inadequate for continuing this course will be required to change their registration to Chemistry 1.

1b. Inorganic Chemistry.—Lectures; recitations; laboratory. (For students in engineering.) I or II; (4).

Professor NOYES, Dr. HOPKINS, Dr. DEMING, Dr. SEARS, Dr. CANN, Dr. ENGLE, Dr. ANDEREGG, and assistants.

NOTE: Students who have credit for high school chemistry should register for Chemistry 1a.

2a. Inorganic Chemistry and Qualitative Analysis.—Chemistry and qualitative analysis of the more common metals and inorganic compounds. Lectures; recitations; laboratory. I or II; (5).

Assistant Professor WEBER, Dr. HOPKINS, Dr. DEMING, Dr. SEARS, Dr. CANN, Dr. ENGLE, Dr. ANDEREGG, and assistants.

Prerequisite: Chemistry 1 or 1a.

3a. Inorganic Chemistry and Qualitative Analysis.—For students in chemistry and chemical engineering. I or II; (6). Assistant Professor WEBER, Dr. SEARS

Prerequisite: Chemistry 1 or 1a.

4. Qualitative Analysis and Chemistry of the Metallic Elements.—Class and laboratory work. (For students in engineering.) I or II; (4).

Assistant Professor WEBER in charge: Dr. SEARS, Dr. CANN, Dr. ENGLE, Dr. ANDEREGG, and assistants.

Prerequisite: Chemistry 1a or 1b.

5a. Elementary Qualitative Analysis.—Gravimetric and volumetric analysis; stoichiometrical relations and the application of the fundamental laws of chemistry to quantitative analysis. Lectures; recitations; laboratory. Talbot: *Quantitative Chemical Analysis*. I or II; (5).

Assistant Professor SMITH in charge. Dr. BALL, and assistants

Prerequisite: Chemistry 2a, or 3a, or 4.

5b. Advanced Analytical Chemistry.—Advanced qualitative analysis; the quantitative analysis of silicates, ores and alloys. Lectures; recitations; laboratory. Treadwell-Hall: *Analytical Chemistry*. Vol. II. II; (5).

Assistant Professor SMITH

Prerequisite: Chemistry 5a.

NOTE.—For Chemistry 5c, see Chemistry 25.

5d. Elementary Quantitative Analysis.—A modification of Chemistry 5a. (For students in mining engineering only.) I; (4).

Assistant Professor SMITH in charge

6.¹ Chemical Technology.—Technological chemistry as illustrated in those industries having a chemical basis for their principal operations and processes; trade journals. Lectures; recitations. Rogers and Aubert: *Industrial Chemistry*. II; (3).

Associate Professor McFARLAND

Prerequisite: Chemistry 5a and 14a.

7.¹ Metallurgy.—General metallurgy; metallurgy of iron and steel. Lectures; assigned reading; recitations. Fulton's *Principles of Metallurgy*; Stoughton's *Iron and Steel*. I; (3).

Associate Professor McFARLAND

Prerequisite: Chemistry 5a. (Senior students in engineering courses may be admitted to this course by special arrangement, without this prerequisite.)

7a. Metallurgy of the Non-Ferrous Metals.—Copper, lead, zinc, gold, and silver. II; (3).

Associate Professor McFARLAND

Prerequisite: Chemistry 5a or 13a.

9. Organic Chemistry.—Characteristics of the more typical and simple organic compounds; the important classes of derivatives of carbon. (For students of the medical preparatory and household science curriculums and others desiring a short course). II; (3).

Assistant Professor ADAMS

Prerequisite: Chemistry 2a or 3a.

9a. Organic Synthesis and Ultimate Analysis.—Ultimate organic analysis; preparation of typical organic compounds. Laboratory. I or II; (2).

Dr. KAMM

Prerequisite: Registration in Chemistry 14a, or equivalent.

9b. Organic Synthesis and Qualitative Organic Analysis.—Continuation of 9a, to accompany Chemistry 14b. I or II; (2).

Dr. KAMM

Prerequisite: Chemistry 9a, 14a; registration in Chemistry 14b, or equivalent.

9c. Organic Synthesis.—Typical organic compounds. Laboratory. (For students in the medical preparatory and household science curriculums and others desiring a brief course.) I or II; (2).

Assistant Professor ADAMS, Dr. KAMM

Prerequisite: Chemistry 2a or 3a; registration in Chemistry 9, or equivalent.

¹Certain required inspection trips will be arranged in connection with courses 6 and 7. Students registered in these courses should take into consideration the expense involved, which will approximate \$15.00 for each course.

10a. Water Chemistry.—History, sources, contamination, and standards of purity of potable waters and waters for industrial purposes. Lectures; practise in analytical methods. *II*; (3).
Professor BARTOW, Dr. MOHLMAN

10b. Chemistry of Water and Sewage.—The chemical analysis of potable waters and waters for industrial purposes. Lectures on the history, sources, contamination, and standards of purity. Chemical analysis of sewage and effluents from sewage treatment plants. (For students in sanitary engineering, registered in connection with Bacteriology 6.) *I*; (2½).
Professor BARTOW, Dr. MOHLMAN

Prerequisite: Chemistry 4.

11a-11b. Thesis.—Thesis, embodying a review of the literature of the subject; account of work done in the laboratory. The subject should be determined upon and reading begun in the junior year. A minimum of five semester hours is required. (Required of seniors in chemistry and chemical engineering.) *I, II*; (5).
Professor NOYES in charge

13a. Elementary Quantitative Analysis.—Gravimetric and volumetric analysis, fertilizer and elementary food analysis. Lectures; recitations; laboratory. Talbot's *Quantitative Chemical Analysis*. (For students in agriculture and household science.) *I or II*; (5).

Assistant Professor SMITH in charge, Dr. BEAL, Dr. EASTLACK, and assistants
Prerequisite: Chemistry 2a, or 3a.

13b. Advanced Agricultural Analysis.—Special methods in agricultural analysis; theory of the determinations; preparation of solutions; sampling; calculations. Treadwell: *Analytical Chemistry*, Vol. II. *II*; (5).
Dr. BEAL

Prerequisite: Chemistry 5a or 13a.

14a-14b. Organic Chemistry.—Lectures; recitations. Noyes: *Organic Chemistry*. *I*; (4); *II*; (2).
Professor NOYES

Prerequisite: Chemistry 5a; should be accompanied by Chemistry 9a and 9b.

15. Physiological Chemistry.—Enzymes; carbohydrates; salivary digestion; gastric digestion; fats; pancreatic-digestion; intestinal digestion; bile; putrefaction products; feces; blood; milk; epithelial and connective tissues; muscular tissue; nervous tissue; urine. Qualitative and quantitative work on gastric juice, blood, urine, and milk. Lectures; demonstrations; conferences; practical work; assigned reading. Mathews: *Physiological Chemistry*; Hawk: *Practical Physiological Chemistry*. (Open to graduates and undergraduates.) *I*; (5).
Dr. LEWIS

Prerequisite: Two years' work in chemistry, including Chemistry 14a-14b and 9a, or 9 and 9c.

15a. Problems of Metabolism.—Colloids; animal oxidations; osmosis; adsorption; selective activity of cells; metabolism; activities of gastro-intestinal tract; enzymes; inorganic nutrition. Lectures; demonstrations; conferences. (For medical students.) *II*; (2).
Dr. LEWIS

Prerequisite: Chemistry 15.

16. Chemistry for Engineers.—The proximate analysis of coal; determination of calorific power; technical analysis of furnace gases; examination of boiler waters; lubricating oils. (For students in engineering.) *II*; (3).
Professor PARR, Dr. BRODERSON

Prerequisite: Chemistry 4; junior standing.

17. **Teachers' Course.**—Methods of teaching elementary chemistry. *I*; (1).

Dr. HOPKINS

21. **Qualitative Organic Analysis.**—Systematic methods for identification of pure compounds and mixtures. *I* or *II*; (2).

Dr. KAMM

Prerequisite: Chemistry 9a, 9b.

22. **Animal Chemistry (Animal Nutrition).**—The chemical composition of animal products and feeding stuffs. Lectures; conferences; assigned reading; laboratory. *I* or *II*; (5).

Professor GRINDLEY

Prerequisite: Two years' work in chemistry.

25. **Food Analysis.**—Quantitative organic analysis, with special reference to the examination of food products: alcohols, carbohydrates, fats and oils, cereals, nitrogenous bodies, preservatives, and colors. Sherman: *Organic Analysis and Food Products*. Formerly Chemistry 5c. *I*; (5).

Dr. BEAL

Prerequisite: Chemistry 5a or 13a; 9 or 14a-14b.

27. **Qualitative Analysis of the Rare Elements.**—The rare elements and their compounds; identification and separation of the elements; formation, solubilities, and chemical reactions of their salts. Assigned reading; laboratory. *II*; (3).

Assistant Professor WEBER

Prerequisite: Two years' work in chemistry.

28. **Advanced Qualitative Analysis.**—Methods of separation; qualitative reagents; reactions of some of the less common elements. (Designed especially for those intending to teach qualitative chemistry.) Lectures, with or without laboratory. *I*; (2-5).¹

Assistant Professor WEBER

31. **Elementary Physical Chemistry.**—Physical chemistry and electro-chemistry. Lectures; recitations; problems. Washburn: *Principles of Physical Chemistry*. *II*; (4).

Professor TOLMAN, Dr. MACINNES

Prerequisite: Chemistry 1, 2a or 3a, 5a; Physics 1a-1b, and 3a-3b, or 7a-7b, and 8a-8b; Mathematics 7 or 8.

33. **Elementary Physical Chemistry.**—Molecular weight in gases and solutions; chemical equilibrium; the electrical conductivity of solutions and the attendant phenomena within the solution; thermochemistry. (Laboratory to accompany course 31.) *II*; (2).

Dr. MACINNES, Dr. VANROSSEN

Prerequisite: Same as for Chemistry 31.

35. **Electrochemistry.**—(A continuation of Chemistry 31.) Electrochemical reactions. Technical applications; electric furnace processes. Lectures; recitations; laboratory. *I*; (3).

Dr. MACINNES

Prerequisite: Chemistry 31, 33.

36. **The Phase Rule and Its Applications.**—Equilibria in heterogeneous systems. Lectures; seminar. *II*; (2).

Dr. VANROSSEN

Prerequisite: Chemistry 31, 33.

- [37. **Problems in Physical and Electrochemistry.**—Work in the laboratory or library with conferences. *I*; (4). Not given, 1916-17.

Professor TOLMAN, Dr. MACINNES

Prerequisite: Chemistry 35 or 102b.]

61. **Industrial Chemical Laboratory.**—The preparation and purification of chemical products from raw materials on a scale sufficient to afford data for deter-

¹In registering for a course with variable credit hours, a student must put down on his study-list, **not** the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

mining the economy of the processes employed. (Should be accompanied by either Chemistry 6 or 109.) *II*; (3). Associate Professor MCFARLAND

Prerequisite: Chemistry 5a and 14a.

65. Technical Gas and Fuel Analysis.—Examination of gases, gas mixtures, flue gases and fuels; determination of calorific values; calculation of efficiencies. *I*; (2). Dr. BRODERSON

Prerequisite: Chemistry 5a.

66. Technology of Gases.—The manufacture, constituents, and uses of the various forms of gaseous fuel; calorimetry; photometry; the more exact methods of analysis. Lectures; reading; reports; laboratory. *II*; (1).

Professor PARR, Dr. BRODERSON

Prerequisite: Chemistry 65.

66a. Gas Manufacture.—Carbonization processes, ovens and by-products. *II*; (1). Professor PARR

69. Metallurgical Laboratory and Assaying.—The fire assay of gold, silver, lead, and copper ores, mattes, and bullion; fluxes, slags, and charge calculations; coal, oil, and gas furnaces; measurement of high temperatures. Fulton: *Manual of Fire Assaying*. *I*; (2). Associate Professor MCFARLAND

Prerequisite: Chemistry 5a; Geology 5.

72. Paints, Oils, Turpentine, Varnishes, and Protective Coverings for Wood and Metals.—Lectures; laboratory. *I*; (2). Professor PARR, Dr. BRODERSON

Prerequisite: Chemistry 5a and 14a-14b.

73. Asphalt, Tar, and Oil Residues.—Sources, characteristics, composition, and examination; binders and dust preventives used in road construction. (For students in highway engineering.) *II*; (2). Professor PARR, Dr. BRODERSON

Prerequisite: Chemistry 2a or 4.

Courses for Graduates

Graduate students whose major subject is in some department other than chemistry, before taking graduate work for credit in this department, must have had the equivalent of 15 university credits in chemistry, and the ground covered should include satisfactory work in general chemistry and in qualitative and quantitative analysis. Such students are advised to make selections from the following courses: Chemistry 31, 33 (or 102, 102a), 14a, 14b, 9a, 9b, 15 and 25. Courses of a more special nature will not, as a rule, be accepted for graduate work unless preceded by one of the above courses.

For students in agriculture, Chemistry 5a and 13a will not be accepted for graduate credit.

Graduate students who are candidates for an advanced degree in chemistry must have had the equivalent of 25 university credits in chemistry, properly distributed.

For students in chemistry, 5a, 13a, 9, and 9c will not be accepted for graduate credit and 9a, 9b, 14a-14b, 31 and 33 will be accepted only from students entering the Graduate School with the equivalent of 30 university credits in chemistry.

102. Advanced Physical Chemistry.—(This course with 102a, covers a period of two years.) Thermodynamic methods. The first and second laws; the classical analytical method; the Nernst heat theorem; the concepts of energy, entropy, free energy, thermodynamic potential and fugacity; the applications of thermodynamic

reasoning to the behavior of pure substances, solutions, heterogeneous systems, and chemical equilibria. Practise in the calculation and use of free energy data. Lectures and seminar. *Twice a week; I, II; ($\frac{3}{4}$ unit).* Professor TOLMAN

Prerequisite: Chemistry 31, 33, or a suitable training in advanced physics.

[102a. Advanced Physical Chemistry.—Kinetic-molecular methods. The kinetic theory of gases; entropy and probability; the quantum theory; the molecular structure of liquids and solids; the electron theory of matter in its more qualitative aspects; the newer theories of the structure of the atom. (A continuation of course 102.) Lectures and seminar. *Twice a week; I, II; ($\frac{3}{4}$ unit).* Not given, 1916-17.

Professor TOLMAN

Prerequisite: Same as for 102.]

[102b. Advanced Electrochemistry.—Modern theories of solution; thermodynamics; the transformation of chemical and electrical energy. *Twice a week; II; ($\frac{3}{4}$ unit).* Not given, 1916-17.

Dr. MACINNES

Prerequisite: Chemistry 102.]

102c. Advanced Problems in Physical and Electrochemistry.—Work in the laboratory or library with conferences. *I; ($\frac{1}{2}$ to 1 unit).*

Professor TOLMAN, Dr. MACINNES

Prerequisite: Chemistry 31, 33, 102 or 102a.

76. Calorimetry of Fuels.—(Advanced Course.) Methods for determining the heat values of solid, liquid, and gaseous fuels. *II; (2).*

Professor PARR

Prerequisite: Chemistry 65.

77. Composition and Classification of Coal.—Classification, changes in composition, weathering, spontaneous combustion, formation of mine gases. Lectures; assigned reading. *II; (1).*

Professor PARR

Prerequisite: Chemistry 65.

78. Metallography. Constitution and microstructure of metals and alloys and the relations between their properties, chemical and mechanical treatment, and structure. Lectures; reading; laboratory. *II; (2).*

Associate Professor McFARLAND

Prerequisite: Chemistry 7.

80. The Elements of Glass Blowing.—Laboratory. *II; (1).*

Mr. ANDERS

Prerequisite: Two years' work in chemistry.

[86. The Chemistry of the Higher Order Compounds.—Complex compounds from the standpoint of the Valence Theory as developed by Werner. *I; (2).* Not given, 1916-17.

Assistant Professor SMITH

Prerequisite: Chemistry 9a, 9b, 14a-14b.]

90-91. Chemical Inspection Trips.—(Required for juniors and seniors in the courses in chemistry and chemical engineering. For the year 1916-17 the trips will occur on April 2d to 7th, 1917. The expense involved will approximate fifteen to twenty-five dollars for each student.) *II; (no credit).*

Associate Professor McFARLAND in charge

92a-92b, 93a-93b. Journal Meeting.—(For juniors, seniors, and graduates in chemistry and chemical engineering.) *I, II; (1).*

All members of the teaching staff in the chemical department.

Associate Professor McFARLAND, and Assistant Professor SMITH in charge

95. History of Chemistry.—Lectures; assigned reading. *I*; (2).

Assistant Professor SMITH

[102d. Electrochemistry.—Theoretical and applied electrochemistry, with emphasis on the technical side of the subject. (For students in electrical engineering.) *Once a week; I; ($\frac{1}{2}$ unit).* Not given, 1916-17. Dr. MACINNES]

102e. Special Topics in Physical Chemistry.—Subject for 1916-17: General Deductive Methods. *I; ($\frac{1}{2}$ unit).* Professor TOLMAN

Prerequisite: Chemistry 102, 102a.

102f. The Chemistry and Physics of Colloids.—The classification of disperse system; adsorption; ultramicroscopy. Electrical, chemical, optical, and catalytic properties of colloids. Seminar; laboratory. (Given in 1916-17, alternating with 102b.) *Twice a week; I; ($\frac{3}{4}$ unit).* Dr. MACINNES

Prerequisite: Chemistry 31, 33, or 102b.

103. Advanced Inorganic Chemistry.—Descriptive inorganic chemistry; the rarer elements; the periodic system. Lectures, with or without laboratory. *Two to five times a week; I, II; ($\frac{1}{2}$ to $1\frac{1}{4}$ units).* Dr. HOPKINS

103a. Advanced Analytical Chemistry.—Special topics. Lectures with or without laboratory. *One to five times a week; II; ($\frac{1}{2}$ to $1\frac{1}{4}$ units).*

Assistant Professor SMITH

Prerequisite: Chemistry 5b, 9a, 9b, 14a-14b, 31, 33.

103b. Special Topics in Inorganic Chemistry.—Subject for 1916-17: The Chemistry of the Higher Order Compounds. Werner: *Neuere Anschauungen auf dem Gebiete der Anorganischen Chemie*; assigned reading from later publications. Lectures; seminar. *Twice a week; I; ($\frac{3}{4}$ unit).* Assistant Professor SMITH

Prerequisite: Chemistry 9a, 9b, 14a-14b.

103c. Seminar in Inorganic Chemistry.—Once a week. *I, II; ($\frac{1}{4}$ unit).*

Dr. HOPKINS

103d. Special Topics in Inorganic Chemistry.—Valence; adsorption. *Once a week. I, II; ($\frac{1}{2}$ unit).* Assistant Professor WEBER

104. Advanced Organic Chemistry.—Seminar. The open chain compounds of carbon, hydrogen, and oxygen atoms from the standpoint of the atomic linking theory; tautomerism, stereochemistry; and the carbohydrates. Lectures; discussions; laboratory. *Three times a week; I, II; ($\frac{3}{4}$ unit).*

Assistant Professor ADAMS

[104a. Advanced Organic Chemistry.—(Continuation of 104, with which it alternates.) The closed chain compounds of the carbon, hydrogen, and oxygen atoms and of the organic compounds of nitrogen; the ureids, alkaloids. Lectures; discussion, laboratory. *Three times a week; I, II; ($\frac{3}{4}$ unit).* Not given, 1916-17.

Assistant Professor ADAMS]

[104b. Advanced Quantitative Organic Analysis.—Proteins, alkaloids, glucosides, volatile oils, and other constituents of animal and vegetable tissues. Plant analysis. Toxicological analysis. The general methods, chemical and physical, of organic analysis. Lectures and seminar. May be accompanied by laboratory work on a selected group of compounds. *Twice a week; I, II; ($\frac{3}{4}$ unit).* Not given, 1916-17. Dr. BEAL]

104c. Seminar in Organic Chemistry.—Once a week; *II; ($\frac{1}{4}$ unit).*

Assistant Professor ADAMS

105. Advanced Physiological Chemistry.—Structure and distribution of the proteins; intermediary metabolism; the glands of internal secretion. Lectures; demonstrations; assigned readings; discussions. *Twice a week; II; ($\frac{3}{4}$ unit).*

Dr. LEWIS

105a. Advanced Physiological Chemistry.—The more difficult biochemical preparations; the use of analytical methods. Laboratory. *One to five times a week; I, II; ($\frac{3}{4}$ unit).*

Dr. LEWIS

105c. Advanced Physiological Chemistry.—Seminar. Some phases of the recent development of physiological chemistry. *Two hours a week; I, II; ($\frac{1}{2}$ unit).*

Dr. LEWIS

105d. Chemistry of Plant Nutrition.—The occurrence of organic compounds in plants, and their relation to plant nutrition. Lectures; seminar; laboratory. *Two to four times a week; II; ($\frac{3}{4}$ to $1\frac{1}{4}$ units).*

Dr. MUNCIE

106. Animal Chemistry (Animal Nutrition.)—Recent advances in the chemistry of nutrition of the lower animals; the chemistry of the functional products; the flesh, fat, milk, and wool of the more common domesticated animals. Lectures; conferences; assigned reading; laboratory. *Five times a week; I, II; (1 to $1\frac{1}{2}$ units).*

Professor GRINDLEY

Prerequisite: Two years' work in chemistry.

107. Special Problems in Technology of Fuels.—*I; (1 unit).*

Professor PARR

Prerequisite: Chemistry 77.

108. Advanced Metallography.—Constitution and microstructure of metals and alloys; the relations between their properties, chemical and mechanical treatment, and structure. Assigned reading; laboratory. *Twice a week; I; ($\frac{3}{4}$ unit).*

Associate Professor MCFARLAND

Prerequisite: Chemistry 7 and 78 or equivalent.

109. Advanced Industrial Chemistry.—Seminar. Some of the more important chemical industries; the development and chemical control of processes. *Twice a week; I, II; ($\frac{3}{4}$ unit).*

Associate Professor MACFARLAND

Prerequisite: Chemistry 6, 9, 14a-14b, 21 or equivalent.

110. Water Supplies.—The sources of contamination of water supplies and the purification of water for potable or technical use. *One to five times a week; I, II; ($\frac{1}{2}$ to $1\frac{1}{2}$ units).*

Professor BARTOW

111. Research.—A thesis is usually required of students taking the Master's degree and is always required of students taking the degree of Doctor of Philosophy. (For a description of undergraduate work leading to a thesis, see Chemistry 11.) Work may be taken in the following subjects:

PHYSICAL AND ELECTROCHEMISTRY

Professor TOLMAN, Dr. MACINNES

INORGANIC CHEMISTRY

Assistant Professors SMITH, WEBER, Dr. HOPKINS, Dr. DEMING

ANALYTICAL CHEMISTRY

Assistant Professor SMITH

FOOD CHEMISTRY

Dr. BEAL

ORGANIC CHEMISTRY

Professor NOYES, Assistant Professor ADAMS, Dr. KAMM

WATER CHEMISTRY

Professor BARTOW

ANIMAL CHEMISTRY (Animal Nutrition)

Professor GRINDLEY

PHYSIOLOGICAL CHEMISTRY

Dr. LEWIS

INDUSTRIAL CHEMISTRY

Professor PARR, Associate Professor MCFARLAND

Summer Session Courses

NOTE: All the courses in chemistry offered in the Summer Session are equivalent to the courses of the same numbers given during the academic year.

S 1. Elementary Chemistry.—For description, see Chemistry 1. (5).

Dr. HOPKINS, Dr. ENGLE, Mr. ROWLAND

S 1a and S 1b. Inorganic Chemistry.—For description, see Chemistry 1a and Chemistry 1b. (4).

Dr. HOPKINS, Dr. ENGLE

S 2a. Inorganic Chemistry and Qualitative Analysis.—The general chemistry and qualitative analysis of the more common metals and inorganic compounds. (5).

Dr. HECKER, Mr. ROWLAND

Prerequisite: Chemistry 1 or 1a.

S 3a. Inorganic Chemistry and Qualitative Analysis.—(For students in chemistry and chemical engineering.) (6).

Dr. HECKER

Prerequisite: Chemistry 1.

S 17. Teachers' Course.—The methods of teaching elementary chemistry. (1).

Dr. HOPKINS

Prerequisite: One year's work in chemistry.

***S 5a. Elementary Quantitative Analysis.**—For description see Chemistry 5a. (5).

Dr. BEAL, Dr. SEARS

Prerequisite: Chemistry 1 and 3.

***S 13a. Argicultural Analysis.**—For description see Chemistry 13a. (5).

Dr. BEAL, Dr. SEARS

***S 5c. Food Analysis.**—Quantitative organic analysis, with special reference to the examination of food and drug products; alcohols, carbohydrates, fats and oils, animal and vegetable foods, nitrogenous bodies, preservatives, and colors. Sherman's *Organic Analysis* and Sherman's *Food Products*, "Bulletin 107, rev., U. S. Bureau of Chemistry." (5).

Dr. BEAL, Dr. SEARS

***S 9a. Organic Synthesis.**—For description, see Chemistry 9a. (2).

Assistant Professor DERICK, Dr. JOHNSON

Prerequisite: Registration in Chemistry S 14.

***S 9b. Organic Synthesis.**—(Continuation of S 9a.) (2).

Assistant Professor DERICK, Dr. JOHNSON

Prerequisite: Chemistry S 9a and registration in Chemistry S 14b.

***S 14a. Organic Chemistry.**—For description see Chemistry 14a. This course may be substituted for Chemistry 9 of the academic year. (3).

Assistant Professor DERICK, Dr. JOHNSON

Prerequisite: Chemistry 2 and 3.

***S 14b. Organic Chemistry.**—For description, see Chemistry 14b. (3).

Assistant Professor DERICK

Prerequisite: Chemistry S 14a or equivalent.

***S 11 and *S 111. Research.**—For description, see Chemistry 11a-11b, and Chemistry 111.

Assistant Professor DERICK, Dr. BEAL, Dr. LEWIS

***S 15. Physiological Chemistry.**—For description, see Chemistry 15. (5 or 7).¹

Dr. LEWIS

***S 92. History of Chemistry.**—Periods, theories, leaders; use of literature. Lectures, reports, reference work. (1).

Assistant Professor DERICK

¹In registering for a course with variable credit hours, a student must put down on his study-list not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

CIVIL ENGINEERING

FREDERICK HAYNES NEWELL, B.S., D.Eng., *Professor*

IRA OSBORN BAKER, B.S., C.E., D.Eng., *Professor*

CHARLES ALTON ELLIS, A.B., *Professor*

JAMES ELMO SMITH, B.S., C.E., *Assistant Professor*

WILBUR M WILSON, M.M.E., C.E., *Assistant Professor*

CARROLL CARSON WILEY, B.S., C.E., *Associate*

NEAL BRYANT GARVER, B.S., C.E., *Associate*

GEORGE WELLINGTON PICKELS, Jr., B.C.E., C.E., *Associate*

WILLIAM HORACE RAYNER, B.S., C.E., *Instructor*

RAYMOND EARL DAVIS, M.S., C.E., *Instructor*

C STANLEY SALE, B.S., *Instructor*

BENJAMIN LESTER BOWLING, *Assistant in Highway Laboratory*

Courses for Undergraduates

27. Plane Surveying.—Transit, and level; computation of areas and volumes and partitioning of land; the U. S. land survey methods, re-establishment of corners and boundaries, and interpretation of deeds; farm and city surveying; topographic surveying; map construction. Problems with the tape, stadia, transit, and level. Breed and Hosmer: *Principles and Practise of Surveying*, Vol. I.; and Davis: *Manual of Surveying*. I; (3). Mr. RAYNER, Mr. DAVIS

Prerequisite: General Engineering Drawing 1, 2; Mathematics 4.

28. Higher Surveying.—Transit, sextant, and plane-table in making topographic and hydrographic surveys; methods; determination of latitude, longitude, and azimuth by stellar and solar observations; topographic drawing; precise surveys; adjustment of a triangulation system; computations for coordinates; elements of geodesy. Breed and Hosmer: *Principles and Practise of Surveying*, Vol. II. Davis: *Manual of Surveying*. II; (3). Mr. PICKELS, Mr. RAYNER, Mr. DAVIS

Prerequisite: Civil Engineering 27; Physics 1a, 3a, and registration in Physics 1b, 3b.

31. Surveying.—The compass, level, transit, and plane-table. The determination of distances by pacing, and with chain and tape, and of areas with compass and transit; profile leveling; problems with plane-table Davis: *Manual of Surveying*. (For students in landscape architecture.) I; (3). Mr. PICKELS

Prerequisite: Mathematics 4; Architecture 31, 32.

32. Topographic Surveying.—The stadia; conventional topographic signs; contour construction; its use in grading and drainage problems; advanced work with the plane-table. Each student will prepare a large scale topographic map of a portion of the campus. Davis: *Manual of Surveying*. (For students in landscape architecture.) II; (3). Mr. PICKELS, Mr. RAYNER

Prerequisite: Civil Engineering 31.

35. Surveying.—Compass, level, transit, and plane-table. The determination of distances with tape and by stadia; the determination of areas with the compass and transit; differential and profile leveling; the U. S. land survey methods; elements of topographic surveying. Breed and Hosmer: *Principles and Practise of Surveying*, Vol. I.; and Davis: *Manual of Surveying*. (For mining engineering students and others who do not expect to take Civil Engineering 28.) I; (3). Mr. RAYNER

Prerequisite: Physics 1b and 3b

51. Railroad Surveying.—Economic location, construction, and maintenance of railways. Curves, turnouts, and earthworks. Preliminary and location surveys of a line of sufficient length to secure familiarity with the methods in actual practise. Each student makes a complete set of maps, profiles, and estimates. Pickels and Wiley: *Railroad Surveying*. I; (5).

Assistant Professor SMITH, Mr. WILEY Mr. PICKELS

Prerequisite: Civil Engineering 27, 28.

52. Roads and Pavements.—Construction and maintenance of earth, gravel, macadam, concrete, brick and bituminous roads; street pavements, and accessories. Road-building machinery. Effect of travel on road surfaces. Dust prevention and street cleaning. Baker: *Roads and Pavements*. II; (3).

Assistant Professor SMITH, Mr. WILEY

Prerequisite: Mathematics 4; General Engineering Drawing 1, 2; Civil Engineering 27, 28, 51.

53. Railroad Surveying.—First eleven weeks of Civil Engineering 51, for juniors in municipal and sanitary engineering. I; (3).

Assistant Professor SMITH

Prerequisite: Civil Engineering 27, 28.

55. Roads and Pavements.—(For students in landscape gardening.) Blanchard: *Elements of Highway Engineering*. I; (2).

Mr. GARVER

58. Graphic Statics.—Determination of stresses in roof trusses and in three-hinged arches. Malcolm: *Elements of Graphic Statics*. (For students in mining engineering.) II; (2).

Assistant Professor SMITH

Prerequisite: Theoretical and Applied Mechanics 20, 25.

60. Structural Stresses.—The determination of stresses in roofs, bridges, and steel-skeleton buildings, by algebraic and graphic processes. II; (4).

Professor ELLIS, Assistant Professor WILSON

Prerequisite: Mathematics 2, 4, 6; Theoretical and Applied Mechanics 20, 21, 29, 10; General Engineering Drawing 1, 2.

62. Structural Details.—Design of details for roofs, bridges, and steel-frame buildings; detail drawings and shop bills. Carnegie: *Pocket Companion*, last edition. II; (2).

Mr. GARVER

Prerequisite: Registration in Civil Engineering 60.

70. Seminar.—Reading and discussion of papers. Each student presents one major and two minor papers upon assigned topics, and participates in the discussion of other papers. II; (1).

Professor BAKER, Mr. DAVIS

Prerequisite: Full junior standing in civil engineering.

76. Surveying.—(For ceramic engineering students.) Plane and topographic surveying. Adjustment and use of the transit, level, and plane-table. Computations for areas and volumes; map and profile construction; land surveying, location of contours, differential and profile leveling. Davis: *Manual of Surveying*. II; (2).

Mr. PICKELS

Prerequisite: Mathematics 4; General Engineering Drawing 1, 2; Physics 1a-1b, 3a-3b.

77. Masonry Construction.—Baker: *Masonry Construction*. I; (4).

Professor BAKER, Mr. SALE

Prerequisite: Theoretical and Applied Mechanics 20, 21, 29, 10; Civil Engineering 60.

79. Cement Laboratory Practise.—Standard tests for hydraulic cement. *I*; (1).

Mr. SALE, Mr. BOWLING

Prerequisite: Theoretical and Applied Mechanics, 20, 21, 29, 10; Civil Engineering 60; Registration in Civil Engineering 77.**80. Engineering Contracts and Specifications.**—The law of contracts; general and technical clauses used in engineering specifications. Johnson: *Engineering Contracts and Specifications*. *II*; (2).

Professor BAKER

Prerequisite: Full senior standing in the College of Engineering.**81. Theory of Reinforced Concrete.**—Reinforced concrete beams, columns and slabs. Hool: *Reinforced Concrete Construction*. *I*; (2).

Professor ELLIS

Prerequisite: Full senior standing in the College of Engineering.**82. Reinforced Concrete Design.**—Plain and reinforced structures. Hool: *Reinforced Concrete Construction*, Vol. II. *II*; (4).*Prerequisite:* Civil Engineering 81.**83. Bridge Design.**—Determination of stresses and sections of a plate girder and a truss span; stress sheet, general design drawings, and estimate of weights. Johnson, Bryan and Turneure: *Modern Framed Structures*, Part III. (For railway civil engineers, and civil engineers taking the general civil engineering option.) *I*; (3).

Assistant Professor WILSON

Prerequisite: Civil Engineering 60, 62.**85. Steel Bridge Design.**—The same as 83 above, but a fuller course. Johnson, Bryan and Turneure: *Modern Framed Structures*, Part III. (For civil engineers taking the structural engineering option.) *I*; (5).

Assistant Professor WILSON

Prerequisite: Civil Engineering 60, 62.**87. Advanced Bridge Analysis.**—Continuous, draw, cantilever, suspension, and metal-arch bridges. *I*; (2).

Professor ELLIS

Prerequisite: Civil Engineering 60, 62; and registration in Civil Engineering 83 or 85.**88. Steel Building Design.**—Stresses and sections of the steel frame of mill and office buildings; footings and grillages; design drawings and estimate of weights. *II*; (3).

Assistant Professor WILSON

Prerequisite: Civil Engineering 60, 62.**89. Hydro-Economics.**—The occurrence of water in nature; its conservation, regulation, and use for power and in industries; irrigation, drainage, transportation, domestic supply; the legal title to the use of water. *I*; (2).

Professor NEWELL

Prerequisite: Senior Standing.**90. Hydro-Economics.**—(A continuation of Civil Engineering 89.) *II*; (2).

Professor NEWELL

Prerequisite: Civil Engineering 89.**91. Highway Bridge Design.**—Types of highway bridges; determination of location, size, and type. Steel bridges, beam, low-truss, and through-truss; methods and cost of construction. *I*; (4).

Mr. GARVER

Prerequisite: Civil Engineering 60, 62.

92. Concrete Bridges and Culverts.—Reinforced-concrete slab, girder, and arch bridges; falsework and forms; estimates of quantities; costs. *II*; (2).

Mr. GARVER

Prerequisite: Civil Engineering 77, 79, 81, 91.

93. Road Construction.—Design; preparation of plans, specifications, and estimates of cost. Recent developments in types and methods of construction. *I*; (3).

Mr. WILEY

Prerequisite: Civil Engineering 52; Theoretical and Applied Mechanics 21, 29.

94. Highway Administration.—Road laws and administration in Europe and America; taxation and methods of financing road work; the relation of highway improvement to social and economic welfare. *II*; (3).

Mr. WILEY

Prerequisite: Senior standing in civil engineering.

96. Road Laboratory.—Examining and testing bituminous and non-bituminous road materials; interpretation of the results. *II*; (2).

Mr. WILEY, Mr. BOWLING

Prerequisite: Civil Engineering 52, 77, 79; registration in Chemistry 73.

97-98. Thesis.—A problem in investigation or design, subject to the approval of the head of the department. Only students of high standing are permitted to take a thesis. *I*; (1); *II*; (2 or 3).¹

Prerequisite: Full senior standing in civil engineering.

99. Inspection Trip.—*I*; (*no credit*).

Prerequisite: Senior standing.

Courses for Graduates

Entrance on graduate work in civil engineering presupposes the full undergraduate course in that subject.

101. Irrigation and Drainage.—The survey, examination, construction, maintenance, and operation of works for irrigation and drainage of agricultural lands; water rights. *Twice a week; I, II; (½ unit)*.

Professor NEWELL

107. Bridge Engineering.—Deflections; the statically indeterminate frame; swing bridges and arches; special graphic methods; suspension bridges; secondary stresses; impact. *Two or three times a week; I, II; (1 unit or more)*.

Professor ELLIS

124. Steel Building Construction.—Steel framing of fireproof office buildings, hotels, and industrial buildings; wind bracing; eccentrically loaded columns; analysis of special details; erection methods and costs. *Twice a week; I, II; (1 unit or more)*.

Assistant Professor WILSON

THE CLASSICS

HERBERT JEWETT BARTON, A.M., *Professor, Chairman*

CHARLES MEVILLE MOSS, Ph.D., *Professor*

WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor*

ARTHUR STANLEY PEASE,² Ph.D., *Professor*

HOWARD VERNON CANTER, Ph.D., *Associate Professor*

RODNEY POTTER ROBINSON, A.M., *Assistant*

JOHN DOUGLAS MCKINLEY, A.M., *Graduate Assistant*

¹In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

²On leave of absence.

GREEK

Major: 20 hours, excluding Greek 1a-1b, 17, 18, and 19.

Minors: 20 hours chosen from foreign languages (Latin being especially recommended), English literature, history, and philosophy.

LATIN

Major: 20 hours, excluding Latin 1a, 6a, and 12.

Minors: 20 hours chosen from foreign languages (Greek being especially recommended), English literature, history and philosophy.

CLASSICS

Major: 20 hours in Greek and Latin, excluding Greek 1a-1b, 16, 17, 18, 19, and 20, and Latin 1a, 6a, 12, 13, and 19. At least six hours shall be carried in the secondary language and the remaining hours in the primary language.

Minors: 20 hours chosen from foreign languages, English literature, history, and philosophy.

GREEK

Courses for Undergraduates

The courses in translation naturally follow each other in the following sequence: 1a-1b, 3, 7 (5), 6 (8). Courses 1a-1b, 3, and 4 are intended for students who cannot present Greek for entrance to the University, but who desire to commence the study of the language. Course 2a-2b, may be taken after course 1a-1b and course 14 after courses 5 or 7. Courses 16, 17, 18, and 19 are open to sophomores, juniors, and seniors; 20 is open to those who have completed one year in history or classics.

1a-1b. Grammar and Reader.—First semester: Attic forms; reading of simple prose. Second semester: Xenophon's *Anabasis*, Book 1. *I, II*; (4).

Mr. ROBINSON

2a-2b. New Testament Greek.—First semester: Reading of selections. Second semester: Lectures on Canon and Text. *I, II*; (2).

Professor MOSS

Prerequisite: Greek 1.

3. Second year Greek.—Xenophon's *Anabasis*, Books II-IV; grammatical drill. *I*; (3).

Mr. ROBINSON

Prerequisite: Greek 1.

4. Second Year Greek.—Homer, six Books of the *Iliad*. *II*; (3).

Mr. ROBINSON

Prerequisite: Greek 3.

7. Greek Drama.—Three plays from the great dramatists. *II*; (3).

Professor MOSS

Prerequisite: Greek 4.

8. Plato.—Selected dialogues, including the *Apology* and the *Phaedo*. *I*; (3).

Professor OLDFATHER

Prerequisite: Greek 4.

14. Greek Prose Composition.—*II*; (1).

Professor MOSS

Prerequisite: Greek 5 and 6, or 7 and 8.

Greek Life and Literature in English

(Courses 16-20 presuppose no knowledge of Greek and are open to all students except freshmen.)

16. **The Private and Public Life of the Greeks.**—Lectures illustrated by photographs and slides; prescribed readings; *I*; (1). Professor MOSS
17. **Greek Poetry in Translations.**—*I*; (2). Professor MOSS
18. **Greek Prose in Translations.**—*I*; (2). Professor MOSS
19. **Greek Drama in Translations.**—*II*; (2). Professor MOSS
20. **Greek History.**—(This course is described by the department of history as History 5.) *I*; (3). Professor OLDFATHER
- Prerequisite:* One course in history or the classics. Not open to freshmen.

Courses for Graduates

104. **Homer and the Homeric Question.**—Lectures and readings. *I, II*; (1 unit). Professor OLDFATHER
107. **Greek Oratory.**—One or more speeches of each of several orators; lectures and reports. *I, II*; (1 unit). Professor MOSS
110. **Bibliography and Criticism.**—*Once a week; I, II*; ($\frac{1}{4}$ unit). Professor OLDFATHER and others

LATIN

- 1a-1b. **Ovid and Virgil.**—First semester: Selections from the *Amores*, *Heroides*, and *Metamorphoses*. Second semester: Selections from the *Aeneid*. *I, II*; (4) Mr. MCKINLEY
- Prerequisite:* Three entrance units in Latin.
- 2a-2b. **Livy, Plautus, and Terence.**—First semester: Selections from Livy, the story of Hannibal. Second semester: The *Rudens* and the *Captive* of Plautus and the *Phormio* of Terrence. *I, II*; (4). Professor BARTON
- Prerequisite:* Four entrance units in Latin.
3. **Sallust and Cicero.**—Selections from the *Jugurthine War*; *De Senectute*. *I*; (3). Associate Professor CANTER
- Prerequisite:* Latin 2a-2b.
4. **Horace and Catullus.**—Selections. *II*; (3). Mr. ROBINSON
- Prerequisite:* Latin 2a-2b.
- 5a-5b. **Latin Composition.**—Grammatical drill and practise in the simpler forms of expression. *I, II*; (1). Mr. ROBINSON
- Prerequisite:* Latin 1a-1b or its equivalent.
6. **Cicero.**—Selections from the Orations. *I*; (4). Mr. ROBINSON
- Prerequisite:* Two entrance units in Latin.

Roman Life and Literature in English

(Courses 12 and 13 presuppose no knowledge of Latin; open to all students except freshmen.)

12. **Virgil and Horace in English Translations.**—The *Aeneid* and selections from Horace. *I*; (2). Professor BARTON
13. **Roman Life.**—The family, organization of society, education, marriage, amusements, with some attention to the monuments. Lectures and assigned readings illustrated by photographs and slides. *II*; (1). Professor BARTON

19. **Roman History.**—(This course is described by the department of history as History 6.) Not open to freshmen. *II*; (3).

Associate Professor CANTER

9. **Teachers' Course.**—The purpose and methods of preparatory Latin instruction; the teacher's preparation. *II*; (2).

Professor BARTON

Prerequisite: 18 hours in Latin. A portion of this requirement may be waived in the case of those who have taught Latin.

10. **Latin Composition.**—The leading principles; imitation of assigned models. *II*; (2).

Professor BARTON

Prerequisite: 12 hours of Latin, including Latin 5a-5b or equivalent.

Courses for Advanced Undergraduates and Graduates

7. **Horace and Juvenal.**—Selections. *I*; (3).

Professor BARTON

Prerequisite: 12 hours in Latin.

14. **Seneca.**—Selections from his letters and tragedies. *II*; (3).

Professor BARTON

Prerequisite: 15 hours in Latin.

21. **Special Topics in Ancient History.**—(This course is described by the department of history as History 11.) The decline of ancient civilization. *II*; (3).

Professor OLDFATHER

Prerequisite: Junior Standing.

Courses for Graduates.

Students desiring to take graduate work in Latin should have had at least three years of college Latin in addition to the Latin presented to meet entrance requirements.

102. **Roman Oratory.**—*Twice a week; II; (1 unit).*

Associate Professor CANTER

106. **Terence.**—*Twice a week; II; (1 unit).*

Professor OLDFATHER

108. **Tacitus.**—*The Histories. Twice a week; I; (1 unit).*

Professor BARTON

110. **Bibliography and Criticism.**—*Once a week; I, II; (¼ unit).*

Professor OLDFATHER and others

112. **Roman Historiography.**—*Twice a week; I; (1 unit).*

Associate Professor CANTER

114. **Caesar.**—*Twice a week; II; (1 unit).*

Professor OLDFATHER

115. **Roman Elegy.**—*Twice a week; I; (1 unit).*

Associate Professor CANTER

Summer Session Courses

S 1. **Plautus.**—Reading of three plays; discussions of the language and verse of comedy. (2½).

Associate Professor CANTER

Prerequisite: Three or four years of high school Latin.

S 2. **Catullus and Horace.**—Selections from the lyric poetry of these authors. (2).

Professor OLDFATHER

S 3. **Roman History.**—Illustrated lectures; assigned readings. (2)

Professor OLDFATHER

S 4. Teachers' Course.—For description, see Latin 9. (1).

Associate Professor CANTER

***S 115. Roman Elegy.**—The origin and development of elegy as a department of literature on Greek and Roman soil; elegy in its relation to other lyric forms; lectures and reports; translations from Catullus, Tibullus, and Propertius. (*1 unit*).

Associate Professor CANTER

(Subject to approval of Graduate School Faculty.)

COMMERCIAL LAW

(See BUSINESS ORGANIZATION AND OPERATION.)

COMPARATIVE LITERATURE

JOSEPH EUGENE GILLET, Ph.D., *Associate in Comparative Literature and German*

1. Tragedy.—Theory and practise from classical times to the present day. Lectures; readings; reports. *I*; (3) Dr. GILLET

Prerequisite: Two years of college work or the permission of the instructor. Foreign language is not required.

NOTE.—Comparative Literature 1 may be counted toward a major in English or toward a minor in German, in French or in Romance Languages.

2. Comedy.—Theory and practise from classical times to the present day. Lectures; readings; reports. *II*; (3). Dr. GILLET

Prerequisite: Two years of college work, or the permission of the instructor. Foreign language is not required.

NOTE.—Comparative Literature 2 may be counted toward a major in English or toward a minor in German, in French or in Romance Languages.

COMPARATIVE PHILOLOGY

LEONARD BLOOMFIELD, Ph.D., *Assistant Professor*

For Advanced Undergraduates and Graduates

1. Introduction to the Study of Language.—Phonetics; the development of forms of speech; dialects and the spread of languages; the study and teaching of language. *I*; (3). Assistant Professor BLOOMFIELD

Prerequisite: The consent of the instructor.

2. Comparative Philology of the Indo-European Languages.—Attention will be given chiefly to Greek, Latin, and the Germanic languages, including English. *II*; (2). Assistant Professor BLOOMFIELD

Prerequisite: The consent of the instructor.

[3. Elementary Sanskrit.—Reading and grammar. *I*; (3). Not given, 1916-17. Assistant Professor BLOOMFIELD

Prerequisite: The consent of the instructor.]

4. Elementary Sanskrit.—Continuation of 3. *II*; (3).

Assistant Professor BLOOMFIELD

Prerequisite: Comparative Philology 3.

DAIRY HUSBANDRY

HARRY ALEXIS HARDING, Ph.D., *Professor, Dairy Bacteriology*
 WILBUR JOHN FRASER,¹ M.S., *Professor, Dairy Farming*
 NELSON WILLIAM HEPBURN, M.S., *Assistant Professor, Dairy Manufactures*
 MARTIN JOHN PRUCHA, Ph.D., *Assistant Professor, Dairy Bacteriology*
 RAY STILLMAN HULCE, M.S., *Associate, Milk Production*
 EDWARD FREDERICK KOHMANN, Ph.D., *Associate, Dairy Chemistry*
 HARRISON AUGUST RUEHE, M.S., *Associate, Dairy Manufactures*
 WILLIAM WODIN YAPP, M.S., *Instructor, Dairy Husbandry*
 PAUL WILLIAM ALLEN, M.S., *Instructor, Dairy Bacteriology*
 LEIGHTON J TRUE, B.S., *Assistant, Dairy Manufactures*
 CHRIS SIMEON RHODE, B.S., *Assistant, Dairy Husbandry*
 EDWARD G SQUIRE, B.S., *Assistant, Dairy Manufactures*
 RUSSELL STARKEY BRACEWELL, A.B., *Assistant, Dairy Chemistry*

Courses for Undergraduates

1. **Milk Testing.**—Babcock test; tests for purity and adulteration; lactometer; tests for acidity, moisture, and salt; qualitative separation of milk into its components; the composition of milk. Lectures; recitations; problems; laboratory; assigned readings. *I or II*; (3).
 Dr. KOHMANN, Mr. BRACEWELL

2. **Dairy Cattle.**—Selection, feeding, and management; dairy type; herd improvement; history, characteristics, and adaptability of breeds; milking machines; barn arrangements; herd management. (Students having credit in Dairy Husbandry 16 should register for laboratory work only, for which they will receive two hours' credit. All others must register for both lectures and laboratory.) Lectures; recitations; laboratory. *I*; (5).
 Mr. HULCE, Mr. YAPP

Prerequisite: Animal Husbandry 5, 8, and 21, or their equivalent.

3. **Elements of Dairy Husbandry.**—The dairy herd; dairy sanitation; milk testing; milk; milk products. (Required of all freshmen in the general curriculum in agriculture.) Lectures; demonstrations. *I or II*; (1).
 Mr. YAPP and other members of the department

4. **Ice Cream Making.**—Mixing and freezing; freezers; flavoring materials, fillers, and binders; ice cream standards; condensed milk; artificial refrigeration. (This course is accompanied by one inspection trip, costing from \$10 to \$15.) *I or II*; (3).
 Mr. RUEHE, Mr. SQUIRE

Prerequisite: Dairy Husbandry 1 or 5.

5. **The Composition of Dairy Products.**—Rapid commercial tests; milk proteins; milk fat. Lectures; recitations; problems; assigned reading; laboratory. *II*; (3).
 Dr. KOHMANN, Mr. BRACEWELL

Prerequisite: Chemistry 13a. It is desirable that students registering in this course take Chemistry 9 or its equivalent, which after 1919-20 will be made a prerequisite.

6. **Germ Life and the Dairy.**—Lectures; assigned readings. *I*; (1).
 Professor HARDING, Mr. ALLEN

7. **Creamery Buttermaking and Factory Management.**—Types of creameries; raw product; grading; pasteurization; commercial starters; ripening, churning, salting, and working butter; butter composition and scoring; making, packing, and storing butter; creamery by-products; refrigeration. Creamery location and

¹On leave of absence, first semester.

plans; business management and accounting. (This course is accompanied by one inspection trip costing from \$10 to \$15.) Lectures; assigned readings; laboratory. *II*; (5). Assistant Professor HEPBURN

Prerequisite: Dairy Husbandry 1. After 1917-18 Accountancy 1a and 1b will be made prerequisite. After 1918-19 the requirements will be Dairy Husbandry 5 and Accountancy 1a and 1b.

8. **City Milk Supply.**—Production, transportation, plant, and delivery. *II*; (2). Professor HARDING

11. **Dairy Bacteriology.**—The bacteria of milk and its products; methods of introduction, effect, and methods of control. Lectures. *I*; (2). Professor HARDING, Mr. ALLEN

Prerequisite: Bacteriology 1 or 5; two years of university work.

12a-12b. **Dairy Bacteriology.**—The bacteria in milk and its products. Laboratory. *I, II*; (4). Professor HARDING, Mr. ALLEN

Prerequisite: Bacteriology 1 or 5; two years of university work.

13. **General Course in Dairy Manufactures.**—Milk production, care, and distribution; the hand separator; handling cream and making and marketing butter on the farm; soft cheese; Neufchatel; cream; pimento; cottage; manufactured milk drinks; ice cream making; plans and equipment for the farm dairy. (For the student who has only a general interest in the subject of dairy manufactures.) *I*; (3). Assistant Professor HEPBURN and other members of the department.

17. **Advanced Study of Dairy Breeds.**—History, environment; breed characteristics; prominent families and individuals; pedigree work; official tests; advanced registry. Lectures; assigned reading; seminar work. *II*; (2). Mr. YAPP

Prerequisite: Two years of university work; Animal Husbandry 8; Dairy Husbandry 2.

21. **Systems of Dairy Farming.**—Relation of the cow and the herd to profits; how to establish and perpetuate a dairy herd; economy of crops and rations; systems of cropping; organization of the farm; location and arrangement of buildings and lots; accounts, records, and inventories; markets; care and disposal of milk. *II*; (5). Professor FRASER

Prerequisite: Dairy Husbandry 2.

22. **Cheese Making.**—Ripening and setting milk; cutting, cooking and dipping curd; cheddaring, milling, matting, and salting curd; pressing and curing cheese; cottage, Neufchatel, and other varieties; practise in making the more common varieties. *I*; (2). Mr. RUEHE

Prerequisite: Dairy Husbandry 1.

23a-23b. **Investigation and Thesis.**—*I, II*; (5-10).¹

Professor HARDING, Professor FRASER, Assistant Professor HEPBURN, Mr. HULCE, Dr. KOHMANN.

Courses for Graduates

101. **Economic Milk Production.**—Differences in the efficiency of dairy cows, the cause and effect of these differences and their relation to successful dairy farming. *Twice a week; I, II*; (1 unit). Given only second semester, 1916-17.

Professor FRASER

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

104. Scientific Readings.—Reading and discussion of some German or French bacteriological text. (Recommended for first and second year students.) *I, II;* ($\frac{1}{2}$ unit). Professor HARDING, Assistant Professor PRUCHA

105. Bacteriological Literature.—Assigned readings. Each student will be required to prepare and deliver an acceptable course of lectures. (Recommended for second and third year students.) *Once a week, or once in two weeks; I, II;* ($\frac{1}{2}$ or 1 unit). Professor HARDING

106. Research on Assigned Problems.—Assigned reading; laboratory; reports. (Open to graduate students whose development permits their undertaking problems of dairy bacteriology with only general supervision.) *I, II; ($\frac{1}{2}$ to 2 units).* Professor HARDING, Assistant Professor PRUCHA

107. Dairy Chemistry.—Assigned reading and problems. *Once a week; I, II;* (1 unit). Dr. KOHMANN

DRAWING, GENERAL ENGINEERING

HARRY WILLARD MILLER, M.E., *Assistant Professor*

HARVEY HERBERT JORDAN, B.S., *Associate*

FRANCIS MARION PORTER, M.S., *Associate*

RUFUS CRANE, A.B., B.S., *Instructor*

CLARENCE ALLEN ATWELL, B.S., *Instructor*

LEO STARR BALDWIN, B.S., *Instructor*

MERTON FORD BANKS, *Assistant*

ROBERT EMMET MURPHY, *Half-time Assistant*

1. Elements of Drafting.—Lettering, isometric oblique and perspective drawing, orthographic projection; machine sketching; working drawings. Lettering; mechanical styles and the making of name plates and titles. Mechanical drawing; 12 plates from specifications and 6 plates from models, with tracings of each. Dimensioned sketches from parts of standard machines; complete working drawings. Tracings duplicated in blue-print form. Time sketches of equipment. More advanced work is given to students who have had high school drawing. Miller: *Mechanical Drafting. I or II; (4).* The Department staff

2. Descriptive Geometry.—The point, line, and plane; the properties of surfaces; intersections and developments (for architects, perspective instead of intersections and developments). Practical problems; recitations. Three drawing room plates, 2 hours each, 5 problems per plate, and 2 home plates, 5 problems each per week. Miller: *Descriptive Geometry. I or II; (4).* The Department staff
Prerequisite: Solid geometry, college algebra, plane trigonometry.

21. Advanced Descriptive Geometry.—Review of course 2; the cylinder, cone, convolute, and warped surface; intersections of these surfaces in pairs, and by planes; planes tangent; developable and approximately developable surfaces and doubly curved and complex surfaces of revolution; practical applications and methods. *II; (2).* Mr. PORTER

Prerequisite: General Engineering Drawing, 1, 2.

ECONOMICS

(See also BUSINESS ORGANIZATION AND OPERATION, and TRANSPORTATION.)

DAVID KINLEY, Ph.D., LL.D., *Professor*

MAURICE HENRY ROBINSON, Ph.D., *Professor*

ERNEST LUDLOW BOGART, Ph.D., *Professor*

NATHAN AUSTIN WESTON, Ph.D., *Assistant Professor*
 SIMON LITMAN, Dr. Jur. Pub. et Rer. Cam., *Assistant Professor*
 CHARLES MANFRED THOMPSON, Ph.D., *Assistant Professor*
 JOHN GIFFIN THOMPSON, Ph.D., *Instructor*
 CHARLES LESLIE STEWART, Ph.D., *Instructor*
 HENRY ELMER HOAGLAND, A.M., *Instructor*
 FREDERIC ARTHUR RUSSELL, Ph.D., *Instructor*
 MERVIN HAROLD HUNTER, Ph.D., *Instructor*
 PAUL HOWARD DOUGLAS, A.M., *Instructor*
 JOSEPH BOYCE VERNON, A.B., *Assistant*
 WILLIAM HENRY DREESEN, A.M., *Assistant*
 MAURICE ELZIN MURPHY, A.M., *Assistant*
 PEMBROKE HOLCOMB BROWN, A.B., *Assistant*

Major: For students in the College of Liberal Arts and Sciences twenty hours, made up of Economics 1 and any other courses for which it is a prerequisite.

Minor: Twenty hours in any one or two of the following subjects: history, philosophy, political science, and sociology.

Economics, 7, 22, and 26 are open to freshmen without previous requirement. Economics 27 is also open to freshmen, but requires credit in course 26 or an approved high school course in commercial geography.

Economics 1 and 3 are the fundamental courses in economics. They are prerequisites for most of the advanced courses and students expecting to do advanced work in economics should take them both in their sophomore year.

Economics 2 though open to all students who have had 30 hours of university work, is primarily for students in the colleges of Agriculture and Engineering and in courses in household science, chemistry, chemical engineering and other sciences. It may not be used as a prerequisite for advanced courses in economics except as indicated.

Courses for Undergraduates

1. Principles of Economics.—(See note preceding the description of courses in economics above.) *I*; (5).

Assistant Professor C. M. THOMPSON, Dr. J. G. THOMPSON, Dr. STEWART, Mr. HOAGLAND, Dr. RUSSELL, Dr. HUNTER, Mr. DOUGLAS, and assistants.

Prerequisite: Thirty hours of University work

2. Principles of Economics.—(See note preceding the description of courses in economics above.) *II*; (3).

Assistant Professor C. M. THOMPSON, Dr. STEWART, Mr. HOAGLAND, Dr. RUSSELL, Dr. HUNTER, Mr. DOUGLAS.

Prerequisite: Thirty hours of university work.

3. Money and Banking.—The history and theory of money, credit, and banking. (See note preceding the description of courses in economics above.) *II*; (3). Assistant Professor WESTON, Dr. STEWART, Dr. HUNTER, Mr. DOUGLAS, and assistants.

Prerequisite: Economics 1.

7. English Economic History.—Industrial development; manorial system; guilds; commercial policy and expansion of the seventeenth and eighteenth centuries; industrial and manufacturing growth of the nineteenth century. (*Open to freshmen and sophomores only.*) *I*; (3). Professor BOGART

16c. Agricultural Economics.—The application of the principles of economics to the problems of agriculture. *II*; (3). Dr. J. G. THOMPSON

Prerequisite: Economics 1 or 2.

22. The Economic History of the United States.—Explorations and settlements leading to the colonization of this continent; growth of industry, agriculture, commerce, transportation, and labor from the agricultural communities of the colonies to the industrial and commercial society of today. (*Open to freshmen only.*) *II*; (3). Professor BOGART, Assistant Professor C. M. THOMPSON, and assistants.

23. Statistics.—Sources of data; purposes of statistics; preparation of schedules; analysis of returns; averages and index numbers; frequency tables; graphic methods; limitations of statistics; application of statistical methods to current problems. *II*; (3). Mr. HOAGLAND

Prerequisite: Economics 1.

26. Economic Resources.—Environment influences affecting commercial and industrial development; products and industries of different countries; the extent and distribution of the resources and the industrial and commercial activities of the United States. (*Open to freshmen and sophomores only.*) *I*; (3).

Assistant Professor LITMAN, Dr. RUSSELL, Dr. HUNTER, and assistants

27. Modern Industries.—The raw materials of commerce; geographical distribution; the leading industries which utilize these materials; sources of power; investment of capital; employment of men and of machinery; stages of production; distribution of finished commodities. (*Open to freshmen and sophomores only.*) *II*; (3). Assistant Professor LITMAN, and assistants

Prerequisite: Economics 26, or an approved high-school course in commercial geography.

32. Marketing Farm Produce.—Prices; seasonal aspects; middlemen; speculation; transportation; terminal problems; regulative and protective legislation; crop statistics; public markets; direct sales; European and American marketing conditions. *II*; (2). Dr. STEWART

Prerequisite: Economics 1 or 2.

33. Economics of Insurance.—The historical development and economic aspects of insurance. *I*; (2). Professor ROBINSON

Prerequisite: Economics 1 and 3.

34. Property Insurance.—Technical characteristics and economic effects of fire, marine, title, and credit insurance and corporate suretyship. *II*; (2). Professor ROBINSON

Prerequisite: Economics 1 and 3.

35. Corporations.—Organization and financial management of corporations; promotion, issuance of securities, capitalization, financial accounting, insolvency, and reorganizations. (*Open to junior and senior engineering students only.*) *I*; (3). Professor ROBINSON

Prerequisite: Economics 1 or 2.

Courses for Undergraduates and Graduates

4. Financial History of the United States.—Colonial, revolutionary, and federal finances: receipts and expenditures, the debt, war finance, internal revenue and the

fiscal aspects of the tariff; currency and coinage and the inflationist movements.
I; (3). Mr. DOUGLAS

Prerequisite: Economics 1 and 3; senior standing.

5. Public Finance.—Public expenditures; financial administration; taxation; public debts. I; (3). Professor BOGART, Professor ROBINSON, Mr. DOUGLAS

Prerequisite: Economics 1 and 3. Students who have had 6 hours in history and Political Science 1, and who present a statement from the department of political science showing that they are taking political science as a major, may be admitted without Economics 3.

8. The Money Market.—II; (2). Assistant Professor WESTON

Prerequisite: Economics 1 and 3, Business Organization and Operation 1, senior standing. For the present year former Economics 6 will be accepted instead of Business Organization and Operation 1.

9. Practical Banking.—I; (2). Assistant Professor WESTON

Prerequisite: Economics 1 and 3; Business Organization and Operation 1; senior standing. For the present year former Economics 6 will be accepted instead of Business Organization and Operation 1.

10. Corporation Management and Finance.—Growth, causes, and forms of corporation; promotion, financiering, incorporation, and capitalization of consolidations; organization and securities; stockholders and directors; reports; stock speculation; relation of industrial corporations to international competition; receiverships and reorganizations; social and political effects. II; (3).

Professor ROBINSON

Prerequisite: Economics 1 and 3.

11. Industrial Consolidation.—Growth of monopoly; monopoly prices and methods; ability of trusts to affect prices, wages, interests, and profits; proposed plans for controlling trusts. I; (3). Professor ROBINSON

Prerequisite: Economics 10.

12a-12b. Labor Problems.—First semester: The wage earning class; relations with other classes; early organizations; free land and growth of industry; modern trade unions; employers' associations; comparison with European experience. Second semester: Collective bargaining; unorganized labor; immigration; woman and child labor; industrial education; unemployment; bonus systems; industrial peace; labor legislation; attitude of the public. (The second semester's work may not be taken without the first except with the consent of the instructor.) I, II; (3).

Mr. HOAGLAND

Prerequisite: Graduate or senior standing; Economics 1 and 3. Students who have had 6 hours in history and Sociology 1 and who present a statement from the department of sociology showing that they are taking sociology as a major, may be admitted without Economics 3.

13. Economic Development of Europe Since the Industrial Revolution.—The economic history of France, Germany, and England since the industrial revolution. II; (3). Professor BOGART

Prerequisite: Sixty hours of university work, including Economics 1 and 3. Students who present a statement from the department of history showing that they are taking history as a major, may be admitted without Economics 3.

14. Agricultural Cooperation.—The organization, financing, and management of cooperative associations for the promotion of farming. (*Open to junior and senior students of agriculture only.*) *II*; (2).
Dr. STEWART

Prerequisite: Economics 1 or 2.

15. Rural Credit.—The credit and banking needs of farmers and rural communities and means of supplying them. (*Open to junior and senior students of agriculture only.*) *I*; (2).
Dr. STEWART

Prerequisite: Economics 1 or 2.

17. Economic History of Agriculture.—Land tenure and landed property; large, medium, and small farms or estates; economic conditions and results of extensive and intensive culture; agricultural credit, markets, and labor; state of the agricultural class; organization in agriculture, and its relation to other industries and to the state. *II*; (2).
Dr. J. G. THOMPSON

Prerequisite: Economics 1 or 2.

19. United States Industry, 1820-1860.—Growth, distribution, and character of the population; the public domain and the westward movement; inland communication and transportation; foreign commerce and the carrying trade; distribution, extent, and methods of agriculture; manufacturing; labor and labor saving machinery; currency and banking; the tariff. *I*; (2).

Assistant Professor C. M. THOMPSON

Prerequisite: Open to graduates and seniors who have had Economics 1 and are taking a major in one of the social sciences.

20. United States Industry Since 1860.—Improved methods of agriculture and the effect of exploiting new lands; the factory system; organized labor; evolution of "big business"; growth of urban centers; mining; economic effects of immigration; monetary questions; railroads and the regulation of interstate trade; foreign commerce; the tariff. *II*; (2).

Assistant Professor C. M. THOMPSON

Prerequisite: Open to graduates and seniors who have had Economics 1 and are taking a major in one of the social sciences.

21. Socialism and Economic Reform.—Proposed reforms: Utopian and scientific socialism; revisionism; socialism as a political movement; anarchism and syndicalism; current economic problems as affected by socialistic theories. *II*; (2).
Mr. DOUGLAS

Prerequisite: Economics 1 and 3. Students who have had 6 hours in history and Sociology 1 and who present a statement from the department of sociology showing that they are taking sociology as a major may be admitted without Economics 3.

28. Mechanism and Technique of Domestic Commerce.—Internal trade; wholesale and retail trade organizations; markets, fairs, auctions, stock and produce exchanges; department, mail-order, and cooperative stores; commercial travelers; commercial competition; modern advertising; mercantile credit. *I*; (3).

Assistant Professor LITMAN

Prerequisite: Economics 1 and 3.

[29. Foreign Commerce and Commercial Politics.—International trade; changes in theories and in policies; economic systems (mercantile, free trade, protective); customs tariffs; commercial treaties; tariff legislation in the United States. *II*; (3). Not given, 1916-17.
Assistant Professor LITMAN

Prerequisite: Economics 28.]

31. Organization of Foreign Commerce.—Exporting and importing; ocean transportation; line and charter traffic; institutions for furthering export trade; consular service; entry of goods; the custom house. *II; (3).*

Assistant Professor LITMAN

Prerequisite: Economics 28.

Courses for Graduates

Students entering upon graduate work in economics must have had a thoro course in the principles of the science and should also have studied some special part of the field, such as public finance or money and banking.

101. Economic Theory.—*Twice a week: I, II; (1 unit).* Professor KINLEY

[102. Theory of Money, Credit, and Prices.—*Twice a week; I, II; (1 unit).*
Not given, 1916-17.]

104. Foreign Commerce of the United States.—The foreign commerce of the United States as shown in government publications. *Twice a week; I, II; (1 unit).*

Assistant Professor LITMAN

[105. Public Finance.—The history and theory of public revenue and expenditure. *Twice a week; I, II; (1 unit).* Not given, 1916-17.]

[107. The Corporation in Economic Evolution.—*Twice a week; I, II; (1 unit).*
Not given, 1916-17.]

[109. Theory of Industrial Consolidations.—The nature of industrial consolidations; the conditions and causes responsible for their development and their effects upon the production and distribution of wealth. *Twice a week; I, II; (1 unit).*
Not given, 1916-17.]

110. Investments.—Nature, character, and functions of investments; classes; direct investments; securities of various types; methods of judging investments; state control. *Twice a week; I, II; (1 unit).*

Professor ROBINSON

118. Seminar.—*I, II.*

Professor KINLEY

120. History of Economic Thought.—*Twice a week; I, II; (1 unit).*

Dr. J. G. THOMPSON

122. Advanced Economic History of the United States.—*Twice a week; I, II; (1 unit).*

Professor BOGART

Summer Session Courses

S 2. Principles of Economics.—(3). Assistant Professor C. M. THOMPSON

Prerequisite: One year of university work or the permission of the instructor.

S 3. Money and Banking.—(2½).

Dr. STEWART

Prerequisite: A course in the principles of economics and the permission of the instructor.

S 16c. Agricultural Economics.—The economic principles underlying the farming industry and the conditions of rural life. (2½).

Dr. STEWART

Prerequisite: Economics 1 or 2, or the permission of the instructor.

S 26. Economic Resources.—Extractive, cultivating, and manufacturing industries of different countries, with special reference to the resources and the economic activities of the United States. (2½).

Assistant Professor LITMAN

***S 19. Economic Phases of United States History, 1820-1860.**—Population; the public domain; the westward movement; transportation and communication;

foreign commerce and the carrying trade; agriculture; manufacturing; labor; currency and banking; the tariff. (2); ($\frac{1}{2}$ graduate unit.)

Assistant Professor C. M. THOMPSON

Prerequisite: At least 8 hours of economics, including the principles. Teachers of experience may be admitted at the discretion of the instructor.

***S 104. Theory and Policies of International Trade.**—Significance of foreign commerce; commercial policies and their effects; growth of international competition; trade expansion; analysis of the export and import trade of the United States. (1 unit.)

Assistant Professor LITMAN

EDUCATION

WILLIAM CHANDLER BAGLEY, Ph.D., *Professor*

CHARLES HUGHES JOHNSTON, Ph.D., *Professor*

HORACE ADELBERT HOLLISTER, A.M., *Professor*

GUY MONTROSE WHIPPLE, Ph.D., *Professor*

JOHN ALFORD STEVENSON, A.M., *Assistant and Secretary*

NOBLE LEE GARRISON, A.M., *Lecturer*

HARRIET JOSEPHINE BERNINGER, A.B., *Assistant*

WARREN KENNETH LAYTON, A.B., *Assistant*

ALBERT M SANTEE, A.B., *Graduate Assistant*

JOHN E STOUT, *Professor in the Summer Session*

ALVIS L RHOTON, *Instructor in the Summer Session*

Major: 20 hours made up from any of the courses offered by the department.

Minor: 20 hours made up from either (a) courses in any one or two university subjects represented in the high school program; or (b) courses in any one or two of the following departments: psychology, sociology, philosophy, and political science; or (c) from one subject in (a) and one in (b).

The courses of the department fall into two general divisions: courses primarily for professional training and courses more specifically designed for general culture. The first division includes courses 1, 4, 6, 10, 15, 18, 20, 27, 41, 42, 43, 45, 101, 106, 112, 119, and 125. The second division, courses 2, 5, and 13.

Introductory Courses

1. Introduction to Education.—The American public-school system. The principles and aim of education; biological basis, heredity, and environment; instinct, habit, and habit-formation; memory, and the higher mental processes. (This course is required of all students who are given the official indorsement of the Appointments Committee for teaching positions in secondary schools.) *I* or *II*; (4).

Professor BAGLEY, Mr. STEVENSON

Prerequisite: Junior standing. Psychology 1 is desirable as a prerequisite.

2. History of Education.—Evolution of educational theory, institutions, and practise of the Greek, Roman, medieval, and modern civilizations. *II*; (5).

Professor JOHNSTON

Intermediate Courses

10. The Technics of Teaching.—Types of classroom exercises and preparation of teaching plans; hygiene; classroom management; professional ethics. Observation of teaching in neighboring high schools. (This course with Education 1 is required of all students who are given the official recommendation of the Appointments Committee for teaching positions in secondary schools.) *I* or *II*; (3).

Miss BERNINGER, Mr. GARRISON, Mr. STEVENSON

Prerequisite: Education 1.

[16. **Social Education.**—*I*; (3). Not given, 1916-17.]

25. **Educational Psychology.**—(Introductory course.) Instinct; habit and the acquisition of skill; perception and memory; conception, judgment, and reasoning. Lectures; demonstrations. *I*; (3). Professor WHIPPLE

Prerequisite: Psychology 1 or Education 1.

Courses for Advanced Undergraduates and Graduates

4. **Problems of Educational Administration.**—School systems of typical cities and states; recent experiments in administration, discipline, and methods of teaching. *I*; (3). Mr. GARRISON

Prerequisite: Education 1, 2.

5. **Comparative Education.**—Organization, administration, and basic national ideals of the school systems of the United States, Germany, England, and France, with reference to secondary education and to the training of teachers. *I*; (3). Professor JOHNSTON

Prerequisite: Education 1.

6. **Principles of High-School Education.**—Evolution of high schools and of secondary education; proposed reorganization; high schools and the state systems; legal status; articulation with elementary school, college, technical school, community, and home; teaching staff; reconstruction of curriculums; "controls" of instruction; "student activities." (For those who expect to teach in secondary schools.) *I*; (3). Professor JOHNSTON

Prerequisite: Education 1 or its equivalent.

27. **High-School Curriculums.**—Historic curriculums for secondary education; modern curriculum-making; professional supervision; text-books, apparatus, and teaching devices; psychology of high-school subjects; curriculums for typical communities. *II*; (3). Professor JOHNSTON

Prerequisite: Education 1 or 6 (preferably both).

13-14. **Educational Classics.**—Educational writings of Plato, Aristotle, Quintilian, Montaigne, Milton, Locke, Comenius, Rousseau, Pestalozzi, Froebel, and Herbert Spencer. (Ordinarily required for the doctor's degree in education.) *I, II*; (3). Mr. GARRISON

Prerequisite: Education 1, 2.

15. **School Hygiene.**—School architecture and equipment; heating, ventilation, and lighting; posture, exercise, and fatigue; reading and writing; program of studies and daily time table; mental health of teachers and pupils; communicable diseases and the relation of school authorities to health authorities. (Graduate credit subject to approval of the Executive Faculty.) *II*; (2). Professor WHIPPLE

Prerequisite: Education 1, or normal-school graduation, or two years of teaching experience, with at least junior standing.

18. **Method in Educational Research.**—Statistical and other methods as applied to educational investigation. (This course is ordinarily required of all candidates for advanced degrees.) *I*; (2). Professor WHIPPLE

Prerequisite: Education 1, or its equivalent.

19a. **Readings in German Educational Literature.**—*I*; (1).

Professor WHIPPLE

Prerequisite: Education 1, and moderate facility in reading German.

19b. Readings in French Educational Literature.—I; (1).

Professor WHIPPLE

Prerequisite: Education 1, and moderate ability in reading French.

[20a. **Theory of Supervision.**—Training teachers in service; measuring educational products; qualities of merit and causes of failure in teachers; selection of teachers; organization of teachers' meetings and other agencies for improving the teaching service. *II; (3).* Not given, 1916-17.

Prerequisite: Education 1, or its equivalent.]

41. **Vocational Education.**—Social significance; institutions and methods in elementary and secondary schools; federal, state, and municipal provisions; recent legislation; present tendencies. *I; (3).*

Professor JOHNSTON

Prerequisite: Education 1 or an equivalent satisfactory to the instructor.

42. **Auxiliary Education.**—Institutions and methods for training defectives and delinquents; Binet-Simon tests and other methods of mental diagnosis; educational treatment of morons and moral delinquents; sensory defectives (the blind and the deaf); public institutions of auxiliary education and their administration. *II; (2).*

Professor WHIPPLE

43. **Mental Tests.**—Technics of mental tests, including tests of sensory capacities; attention; memory; learning; suggestibility; inventiveness; diagnosis of mental age; general intellectual status; mental retardation. Laboratory. *II; (2).*

Professor WHIPPLE

Prerequisite: Education 25 or an equivalent, and the consent of the instructor.**45. Problems in Educational Psychology.—II; (2).**

Professor WHIPPLE

Courses for Graduates

101. **Seminar in Educational Theory.**—The philosophical bases of educational theory. *I; (1 unit)*

Professor BAGLEY, Professor BODE

106. **Seminar in Secondary Education.**—Organization, administration, and special methods. Reports and discussions of technical investigations in the fields of high-school administration and pedagogy. *II; (1 unit).*

Professor JOHNSTON

112. **Principles of Education.**—Survey of the American public-school system; leading principles and doctrines of educational science; the technics of teaching and the problems of class management. (For graduate students who are not majoring in education and who have not taken undergraduate courses in education.) *Twice a week; II; (½ unit).*

Professor BAGLEY

[119. **The Elementary Curriculum.**—The functions and values of elementary-school studies; time allotments; practical exercises in the construction of curriculums. *Twice a week; II; (1 unit).* Not given, 1916-17.]

125. Seminar in Educational Psychology.—Once a week; *I; (1 unit).*

Professor WHIPPLE

Departmental Conference.—All graduate students majoring in education are expected to meet with the departmental staff every alternate Monday from 7 to 9 p. m. *I, II; (no credit).*

Summer Session Courses—Education and Psychology

S 1a. **Principles of Education.**—The function of education; formal and informal education; relation of physical and mental development to the art of teaching. (3).

Mr. MILLER

Prerequisite: Junior standing, (but, in the discretion of the instructor, open to teachers who cannot meet this requirement).

S 1b. The Educational System.—The school system of the United States; its present organization, its origin, its distinctive characteristics as compared with other systems; its present problems. Lectures; readings. (1).

Professor BAGLEY

Prerequisite: Junior standing (but, in the discretion of the instructor, open to teachers who cannot meet this requirement).

S 2. History of Modern Education.—The development of educational theory and practise from the Renaissance. Text: Monroe's *History of Education: Brief Course*. (2½).

Professor RHOTON

Prerequisite: Junior standing.

S 10. The Technics of Teaching.—Types of classroom exercises and the preparation of teaching plans; the hygiene of instruction; classroom management; professional ethics. (Required of all students who secure the official recommendation of the Appointments Committee for teaching positions in secondary schools.) (3).

Miss BERNINGER

S 25. Educational Psychology.—For description see Education 25. (2).

Professor WHIPPLE

Prerequisite: Junior standing, (but, in the discretion of the instructor, open to teachers who cannot meet this requirement.)

***S 4. School Organization and Administration.**—The establishment of schools and provisions for their administration; units of control; maintenance; training and selection of teachers. (2).

Professor STOUT

Prerequisite: Education 1 or equivalent (but, in the discretion of the instructor, open to teachers who cannot meet this requirement).

***S 6. The Principles of High-School Education.**—For description see Education 6. (2).

Professor JOHNSTON

Prerequisite: Education 1, or equivalent. (High-school teachers and principals may in the discretion of the instructor, be admitted to the course without the prerequisite.)

***S 18. Method in Educational Research.**—For description see Education 18. (1½).

Professor STOUT

Prerequisite: Education 1.

***S 20. Supervision.**—The limitations, types, functions, standards, and devices of supervisors; the subject limits and time limits of the course of study, and its adaptation to types of mind; the rating of teachers; improvement of teachers in service; the technics of criticism. Lectures; readings; investigation of special problems. (For principals, superintendents, and supervisors.) (2).

Professor STOUT

Prerequisite: Education 1, or equivalent. (Superintendents, principals, and supervisors may, in the discretion of the instructor, be admitted to the courses without the prerequisite.)

***S 21. Units, Scales, and Standards.**—Units, scales, and standards for measuring educational achievement or determining progress in arithmetic, spelling, handwriting, reading, composition, drawing, history, and geography. Lectures; readings; investigation of a special problem. For school superintendents. (2).

Mr. MILLER

Prerequisite: Education 1 or equivalent. (Superintendents, principals, and supervisors may, in the discretion of the instructor, be admitted to the course without the prerequisite.)

***S 30. Contemporary Educational Theory.**—Recent writings in educational theory; analysis of the theory underlying contemporary educational movements; the Gary system; junior-high-school movement; prevocational education. (1).

Professor BAGLEY

***S 43. Mental Tests.**—For description see Education 43. (1).

Associate Professor WHIPPLE

Prerequisite: Education 25 or its equivalent, and the consent of the instructor.

***S 106. Seminar in Secondary Education.**—For description see Education 106. (1 unit).

Professor JOHNSTON

***S 104. Seminar in School Administration.**—($\frac{1}{2}$ unit). Professor STOUT

Prerequisite: Graduate standing, with preliminary courses satisfactory to the instructor.

***S 125. Seminar in Educational Psychology.**—($\frac{1}{2}$ unit). Professor WHIPPLE

Prerequisite: Graduate standing, with preliminary courses satisfactory to the instructor.

***S 110. Seminar in Methods of Teaching.**—The problem of the study of method; the literature of methods of teaching; types of school exercises; study of reports of classroom teaching; classification of types. ($\frac{1}{2}$ unit.) (Subject to approval of the Executive Faculty of the Graduate School.) Professor BAGLEY

Prerequisite: Graduate standing, with preliminary courses satisfactory to the instructor.

ELECTRICAL ENGINEERING

ELLERY BURTON PAINE, M.S., E.E., *Professor, Acting Head of the Department*

MORGAN BROOKS, Ph.B., M.E., *Professor*

EDWARD HARDENBERGH WALDO, A.B., M.S., M.E., *Assistant Professor*

PHILIP SHERIDAN BIEGLER, B.S., E.E., *Assistant Professor*

LEONARD VAUGHAN JAMES, M.S., E.E., *Associate*

IRA WILLIAM FISK, M.S., E.E., *Associate*

ABNER RICHARD KNIGHT, M.E., *Associate*

JOHN WILLIAMS DAVIS, B.S., *Instructor*

PETER JACOB NILSEN, B.S., *Instructor*

4. Elementary Electrical Engineering.—Electrical machinery; selection, installation, and operation; distribution of power; motor applications. II; (2).

Professor BROOKS

Prerequisite: Physics 1a-1b, 3a-3b; junior standing.

8. Electric Currents and Apparatus.—Direct and alternating current circuits and machines; storage batteries. (Especially for students in chemical engineering.) I; (3).

Mr. DAVIS

Prerequisite: Physics 1a-1b, 3a-3b; registration or credit in Mathematics 7; registration in Electrical Engineering 68.

11. Direct Current Apparatus.—Generators, motors, distribution circuits; storage batteries. (For students in mechanical engineering.) I; (3).

Professor BROOKS

Prerequisite: Physics 1a-1b, 3a-3b; Mathematics 8 or 9.

12. Alternating Current Apparatus.—Generators and motors, transformers, distribution systems. (For students in mechanical engineering.) *II*; (3).

Professor BROOKS

Prerequisite: Electrical Engineering 11, 61.

25. Direct Current Apparatus.—Laws of electric and magnetic circuits; construction and operation of direct current generators and motors. *I*; (4).

Mr. JAMES, Mr. FISK, Mr. KNIGHT

Prerequisite: Registration in Electrical Engineering 75 and Physics 4a; Mathematics 9.

26. Alternating Currents.—Mathematical and graphical treatment of periodic currents; phenomena in transmission lines and transformers. *II*; (4).

Mr. JAMES, Mr. FISK, Mr. KNIGHT

Prerequisite: Electrical Engineering 25; Physics 4a; registration in Electrical Engineering 76.

35. Alternating Current Apparatus.—Transformers and generators. *I*; (4).

Professor PAINE

Prerequisite: Electrical Engineering 26, 76.

36. Alternating Current Apparatus.—Synchronous, induction, and commutator motors; rotary converters; distributed inductance and capacity; transient phenomena. *II*; (4).

Professor PAINE

Prerequisite: Electrical Engineering 35, 85.

55. Electrical Design.—Electromagnets and dynamos, direct and alternating; transformers. *I*; (2).

Assistant Professor WALDO

Prerequisite: Electrical Engineering 26; registration in Electrical Engineering 35.

56. Electrical Design.—Induction motors and converters; power plant design. Gebhardt: *Steam Power Plant Engineering*. *II*; (4).

Assistant Professor WALDO

Prerequisite: Electrical Engineering 35; Mechanical Engineering 2.

61. Direct Current Laboratory.—Circuits and machines. (For students in mechanical engineering.) *I*; (1).

Mr. DAVIS

Prerequisite: Registration in Electrical Engineering 11.

62. Alternating Current Laboratory.—Alternating current circuits and machines. (For students in mechanical engineering.) *II*; (1).

Mr. DAVIS

Prerequisite: Registration in Electrical Engineering 12.

64. Electrical Engineering Laboratory.—Testing of dynamos and motors. *II*; (1).

Mr. DAVIS

Prerequisite: Registration in Electrical Engineering 4.

68. Electrical Engineering Laboratory.—Direct and alternating current circuits and machines. *I*; (1).

Mr. DAVIS

Prerequisite: Registration in Electrical Engineering 8.

71-72. Electrical Engineering Laboratory.—The construction of special apparatus or other work approved by the department. (Elective for juniors and seniors.) *I, II*; {1-3}.¹

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

75. Electrical Engineering Laboratory.—Direct current laboratory accompanying Electrical Engineering 25. *I*; (2). Mr. NILSEN

Prerequisite: Registration in Electrical Engineering 25.

76. Electrical Engineering Laboratory.—Determination of the flux and E.M.F. waves of alternators. Alternating current circuits, instruments. *II*; (2).

Mr. NILSEN

Prerequisite: Electrical Engineering 25, 75; registration in Electrical Engineering 26.

85. Electrical Engineering Laboratory.—Advanced alternating current testing. *I*; (2). Assistant Professor BIEGLER

Prerequisite: Electrical Engineering 76; registration in Electrical Engineering 35.

86. Electrical Engineering Laboratory.—Advanced alternating current testing. *II*; (2). Assistant Professor BIEGLER

Prerequisite: Electrical Engineering 85; registration in Electrical Engineering 36.

90. Lighting.—Electric lamps and other illuminants, and their effective use; interior wiring; methods of distribution. (For students in architecture.) *II*; (half semester only); (1).

Professor BROOKS

Prerequisite: Junior standing.

92. Lighting and Wiring.—(First half of semester same as E. E. 90.) Distribution and fusing. Underwriters' rules; motors. (For students in architectural engineering.) *II*; (2).

Professor BROOKS

Prerequisite: Junior standing.

95-96. Seminar.—Electrical railroading; illumination; telegraphy; telephony; storage batteries; electric metallurgy. *I, II*; (1).

Professor PAINE

Prerequisite: Junior standing.

98. Thesis.—First semester: preliminary reading and investigation; second semester: completion. *II*; (3).

99. Inspection Trip.—*I*; (no credit).

Prerequisite: Senior standing.

Courses for Graduates

Entrance upon graduate work in electrical engineering presupposes the full undergraduate course in that subject.

101. Advanced Course in Alternating Currents.—The theory of Transient Phenomena; polyphase circuits; measuring apparatus. *Twice a week; I, II*; (1½ units).

Professor PAINE

103. Electrical Design.—Plans for an electrical machine or apparatus of specified character; or for the arrangement of an electrical plant; or for the installation of such machinery or apparatus. *Twice a week; II*; (1 unit).

Assistant Professor WALDO

104. Telegraphy and Telephony.—*Once a week; I, II*; (1 unit).

Professor BROOKS

105. Electrical Engineering Research.—Investigation of electrical phenomena, or tests of some electrical machine, or of a plant of such machines. *Twice a week; I, II*; (1 to 3 units).

Professor PAINE

106. Illumination.—*Once a week; I, II*; (1 unit).

Professor BROOKS

ENGINEERING

(See ARCHITECTURE, CERAMIC ENGINEERING, CIVIL ENGINEERING, DRAWING, ELECTRICAL ENGINEERING, MECHANICAL ENGINEERING, MECHANICS, MINING ENGINEERING, MUNICIPAL AND SANITARY ENGINEERING, PHYSICS, RAILWAY CIVIL ENGINEERING, RAILWAY ELECTRICAL ENGINEERING, and RAILWAY MECHANICAL ENGINEERING.)

THE ENGLISH LANGUAGE AND LITERATURE

(Including CELTIC, RHETORIC, and PUBLIC SPEAKING)

STUART PRATT, SHERMAN,¹ Ph.D., *Professor*
 DANIEL KILHAM DODGE, Ph.D., *Professor*
 THOMAS ARKLE CLARK, B.L., *Professor*
 ERNEST BERNBAUM, Ph.D., *Professor*
 EDWARD FULTON, Ph.D., *Associate Professor*
 HARRY GILBERT PAUL, Ph.D., *Associate Professor*
 EDWARD CHAUNCEY BALDWIN, Ph.D., *Assistant Professor*
 FRANKLIN WILLIAM SCOTT, Ph.D., *Assistant Professor, Chairman and Secretary*
 HARRIE STUART VEDDER JONES, Ph.D., *Assistant Professor*
 JACOB ZEITLIN, Ph.D., *Assistant Professor*
 HERBERT LESOURD CREEK, Ph.D., *Associate*
 CLARENCE VALENTINE BOYER, Ph.D., *Associate*
 GERTRUDE SCHOEPFERLE, Ph.D., *Associate*
 HARRY FRANKLIN HARRINGTON, A.M., *Associate*
 HAROLD NEWCOMB HILLEBRAND, Ph.D., *Associate*
 MARTHA JACKSON KYLE, A.M., *Instructor*
 CLARISSA RINAKER, Ph.D., *Instructor*
 EASLEY STEPHEN JONES, A.M., *Instructor*
 MERVIN JAMES CURL, A.M., *Instructor*
 ROGER SHERMAN LOOMIS, B.Litt., A.M., *Instructor*
 HARRISON MCJOHNSTON, A.M., *Instructor*
 ROBERT CALVIN WHITFORD, A.M., *Instructor*
 LYNN HAROLD HARRIS, Ph.D., *Instructor*
 ALLENE GREGORY, Ph.D., *Instructor*
 SIGURD OSBORN HUSTVEDT, Ph.D., *Instructor*
 ROBERT BRUCE WEIRICK, A.M., *Instructor*
 HARRY TORSEY BAKER, A.M., *Instructor*
 LEW R SARETT, A.B., LL.B., *Instructor*
 EMERSON GRANT SUTCLIFFE, A.M., *Instructor*
 HAMILTON JEWETT SMITH, A.M., *Instructor*
 JOHN J PARRY, Ph.D., *Instructor*
 SADA ANNIS HARBARGER, A.M., *Assistant*
 RUTH KELSO, A.M., *Assistant*
 LEWIS IGNATIUS BREDVOLD, A.M., *Assistant*
 JAMES MANLEY PHELPS, A.M., *Assistant*
 CLYDE BYRON BECK, A.M., *Assistant*
 MYRTLE AMY CRUZAN, A.B., *Assistant*
 CARRYL NELSON THURBER, A.B., *Assistant*
 BEATRICE VIRGINIA COPLEY, A.B., *Assistant*
 HAROLD FARNSWORTH CHILDS, A.M., *Assistant*

¹ On leave of absence.

FREDERIC IRVIN MYERS, A.M., *Assistant*
 CHESTER CLYDE HARBISON, A.B., *Assistant*
 PAUL NISSLEY LANDIS, A.M., *Assistant*
 GERALD DARFIELD STOPP, A.B., *Assistant*
 ETHEL ERNESTINE SABIN, Ph.D., *Assistant*

Major: 20 hours in English excluding Rhetoric 1-2 and English 10, and including at least 10 hours in English literature, at least 3 hours in composition, and at least 1 one-year course, or its equivalent, from the advanced group of courses.

Minor: 20 hours in either (a) one foreign language; or (b) in any two foreign languages; or (c) in one foreign language and philosophy; or (d) in one foreign language and history.

A. ENGLISH LITERATURE AND LANGUAGE

Elementary Courses

1-2. Survey of English Literature.—(Credit is not given for either semester separately, nor for the course in addition to course 10-11 or course 20.) *I, II*; (4). Assistant Professor BALDWIN in charge, Associate Professor FULTON, Dr. CREEK, Dr. SCHOEPFERLE, Dr. HILLEBRAND, Dr. RINAKER, Miss KYLE, Dr. HUSTVEDT.

Prerequisite: One year of College work.

10-11. Introduction to Literature.—First Semester: The forms of poetry. Second semester: The forms of prose literature. (This course is intended only for those who expect to include a considerable amount of literature, in English or in some other language, in their curriculum. Credit is not given for the course in addition to English 1-2 or 20 nor for the first semester separately. One semester's work is credited toward a major in English.) *I, II*; (3). Professor DODGE, Associate Professor PAUL, Assistant Professor JONES, Assistant Professor ZEITLIN, Mr. BAKER.

Prerequisite: The minimum entrance requirements in English.

12-13. American Literature.—(Credit is not given for either semester separately.) *I, II*; (2). Associate Professor PAUL

Prerequisite: English 1-2 or 10-11.

17. The English Language.—History, characteristics, and usage of modern English. *I*; (3). Associate Professor FULTON

Prerequisite: Rhetoric 1-2.

20. Chief English Writers.—(For those whose program admits of but one semester's work in English, and who therefore may not register for English 1. It is not accepted as a prerequisite for more advanced courses. Credit is not given for the course in addition to English 1 or 10.) *I or II*; (4). Dr. BOYER, Dr. HUSTVEDT, Dr. HARRIS, Mr. JONES, Mr. WHITFORD, Mr. LOOMIS, Mr. WEIRICK, Mr. BAKER.

Prerequisite: One year of college work.

23. Introduction to Shakespeare.—*I or II*; (3).

Dr. BOYER, Dr. HILLEBRAND

Prerequisite: English 1-2 or 10-11.

Intermediate Courses

Prerequisite: Eleven hours of English literature, or eight hours of English literature and eight hours of a foreign language.

21-22. Literary Study of the Bible.—Hebrew literature as an expression of the life of the race that produced it; the debt, both ethical and artistic, of modern life

to ancient Hebrew thought. (Either semester may be taken separately.) *I, II*;
(3). Assistant Professor BALDWIN

24. English Literature of the Victorian Period.—*II*; (3). Miss KYLE

29. English Literature from 1557 to 1688, Exclusive of the Drama.—*I*; (3).
Assistant Professor BALDWIN

31. English Literature From 1688 to 1789.—*II*; (3). Associate Professor PAUL

33. English Literature From 1789 to 1837.—*I*; (3). Assistant Professor ZEITLIN

Courses for Advanced Undergraduates and Graduates

Prerequisite: Sixteen hours of English literature; or junior or senior standing and the approval of the instructor concerned.

3. The Poetry of Milton.—Origins, forms, artistic and ethical values; Milton's place in English literary history. *II*; (3). Assistant Professor BALDWIN

[4. History and Principles of English Versification.—*I*; (2). Not given, 1916-17. Dr. CREEK]

5. Shakespeare.—Intensive study of a few plays, with special emphasis on *Hamlet*. *II*; (3). Professor DODGE

25. Chaucer.—*I*; (3). Assistant Professor JONES

[43. Browning.—Intensive reading of the principal poems. *I*; (3). Not given, 1916-17. Miss KYLE]

8-9. Old English (Anglo-Saxon).—Grammar; short poems; *Beowulf*. (The first semester may be taken separately.) *I, II*; (3). Professor DODGE

27-28. Studies of the History of Journalism.—First semester: Evolution of the English literary periodicals and the periodical essay in the Eighteenth Century. Second semester: The magazine in America. Assistant Professor SCOTT

41-42. Teachers' Course.—Methods of teaching English literature and composition in the high school. (This course is not credited toward advanced degrees, or toward a major in English. Either semester may be taken separately.) *I, II*;
(2). Associate Professor PAUL

18. Modern English Grammar.—Sentence structure and analysis; grammatical categories; peculiarities of English syntax. *II*; (3). Assistant Professor ZEITLIN

32. The Critical Essayists of the 19th Century.—*II*; (3). Associate Professor FULTON

35-36. The English Drama (Exclusive of Shakespeare).—First Semester: From the beginning to 1600. Second Semester: From 1600 to 1700. (Either semester may be taken for separate credit.) *I, II*; (3). Professor DODGE

37. Folk-Lore.—The elements of imaginative fiction; origins of the lyric and drama; primitive satire and gnomic literature. Superstitions surviving in English literature. *I*; (2). Dr. SCHOEPPERLE

38. The Arthurian Tradition in England.—The historical Arthur. Celtic tales. Old French Romances (in translation). The tradition in England from the early romances to Arnold, with special attention to Malory and Tennyson. *II*; (2). Dr. SCHOEPPERLE

39. **Introduction to the Literature of the Middle Ages.**—European culture from the fourth century; the relation of English and continental literature, to the fourteenth century. *II*; (3).
Dr. CREEK

45. **The Development of the Modern Drama.**—Dramatic tendencies in the nineteenth century, both in England and on the Continent; representative readings, and lectures from the standpoint of comparative literature. *I*; (3).
Dr. HILLEBRAND

52. **Language and Literature of the First Half of the Seventeenth Century.**—Close study of important texts, e.g., Bacon, Hooker, King James Bible, Sir Thomas Brown, etc. *II*; (3).
Professor BERNBAUM

60a-60b. **Thesis.**—Special training in investigation for candidates for honors and for other seniors. *I, II*; (1).
Assistant Professor ZEITLIN, Dr. HILLEBRAND, and others

Courses for Graduates

101. **Research in Special Periods.**—Competent graduate students are encouraged to seek the advice and assistance of the department of English and to submit to the department plans for study in the language or literature of the periods mentioned below.

A. Anglo-Saxon language and literature

Professor DODGE, Assistant Professor ZEITLIN

B. Thirteenth and Fourteenth Centuries,

Assistant Professor H. S. V. JONES

C. Sixteenth Century

Professor DODGE

D. Seventeenth Century

Professor BERNBAUM, Assistant Professor BALDWIN

E. Eighteenth Century

Associate Professor PAUL

F. Nineteenth Century,

Professor BERNBAUM, Associate Professor FULTON

[106. **English Literary Criticism from Dryden to Coleridge.**—*Twice a week. I, II*; (1 unit). Not given, 1916-17.
Associate Professor FULTON]

108. **The English Epic.**—The 16th, 17th, and 18th Centuries, from the point of view of classical theory. *I, II*; (1 unit).
Associate Professor FULTON

110. **Old English (Anglo-Saxon) Poetry.**—*Twice a week. I*; (1 unit).
Professor DODGE

[112. **The History and Principles of English Grammar.**—*Twice a week. I, II*; (1 unit). Not given, 1916-17.
Assistant Professor ZEITLIN]

[113. **Historical Prose Syntax.**—The forces, native and foreign, in the development of English prose sentence structure. *I, II*; (1 unit). Not given, 1916-17.
Assistant Professor ZEITLIN]

114. **The Development of the Essay.**—An examination of the various types of the English essay with reference to Continental influences and classical origins. *I, II*; (1 unit).
Assistant Professor ZEITLIN

126. **English Ballads and Metrical Romances.**—*I, II*; (1 unit).
Dr. SCHOEPPERLE

128. **Spenser and the Beginning of the English Renaissance.**—The persistence of certain medieval traditions reinforced by the Revival of Classical Learning. Catholicism and Calvinism as sources of literary inspiration. *Twice a week. I, II*; (1 unit).
Assistant Professor JONES

135. Problems in American Literature.—*Twice a week. I, II; (1 unit).*

Associate Professor PAUL

- [136. The Transition from the Seventeenth to the Eighteenth Century: The Rise of Classicism.—*Twice a week. I, II; (1 unit).* Not given, 1916-17.

Assistant Professor PAUL]

- [137. Nineteenth Century Prose Writers.—The relation of literature to social forces; the works of Mill, Carlyle, Newman, Ruskin, Arnold, and Pater. *Twice a week. I, II; (1 unit).* Not given, 1916-17.

Professor SHERMAN]

- [138. The Romantic Movement in England.—*Twice a week. I, II; (1 unit).* Not given, 1916-17.

Professor SHERMAN]

140. Investigation in Modern English Literature.—For second and third year graduate students. *Three hours, once a week; I, II; (1 to 3 units).*

Professor BERNBAUM

141. English Literature from Milton to Dryden inclusive.—(1) Close study of important texts by Milton and Dryden. (2) Lectures on the history of literature from 1642 to 1700. *Twice a week. I, II; (1 unit).*

Professor BERNBAUM

142. The Conflict of Ideas and Ideals in Eighteenth Century Literature. *Twice a week. I, II; (1 unit).*

Professor BERNBAUM

B. CELTIC

- 1-2. Celtic Civilization and Literature in Translation.—(Either semester may be taken separately. This course may not be counted towards a major in English.) *I, II; (2).*

Dr. SCHOEPPERLE

Prerequisite: Junior standing.

C. RHETORIC

Elementary Courses

- 1-2. Rhetoric and Themes.¹—Required for students in the Colleges of Liberal Arts and Sciences, Commerce, Engineering, and Agriculture. *I, II; (3).*

Assistant Professor SCOTT in charge; Associate Professor FULTON, Assistant Professor JONES, Dr. CREEK, Dr. BOYER, Dr. HILLEBRAND, Miss KYLE, Dr. RINAKER, Mr. JONES, Mr. CURL, Mr. WHITFORD, Dr. HARRIS, Dr. GREGORY, Dr. HUSTVEDT, Mr. LOOMIS, Mr. WEIRICK, Mr. BAKER, Mr. SMITH, Dr. PARRY, Mr. SUTCLIFFE, Miss HARBARGER, Miss KELSO, Mr. BECK, Mr. THURBER, Miss CRUZAN, Miss COPLEY, Mr. CHILDS, Mr. BREDVOLD, Mr. MYERS, Mr. LANDIS, Dr. SABIN.

Prerequisite: The minimum entrance requirements in English.

Intermediate Courses

- 3a. Exposition.²—Themes or topics of general interest; analyses of facts and ideas, literary reviews, and criticisms; informal essays. *I or II; (3).*

Mr. JONES, Miss KYLE

Prerequisite: Rhetoric 1-2.

- 3b. Exposition.²—Themes on topics of especial interest to students in engineering, agriculture, science, and commerce. *I or II; (3).*

Mr. CURL

Prerequisite: Rhetoric 1-2.

¹Students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2 may be excused from the first semester's work. The examination for those desirous of meeting this qualification will be given at 7 p. m., September 18, in room 228 N. H.

²Credit will not be given for both 3a and 3b, nor for more than six hours in Rhetoric 3.

[3c. **Argument.**—Wide reading on both sides of current questions; writing of briefs and of three long arguments. *I*; (3). Not given, 1916-17. Mr. LOOMIS
Prerequisite: Rhetoric 1-2.]

3d. **Description and Simple Narrative.**—*I*; (3). Mr. CURL

6-7. **Narrative Composition.**—Practise in short story writing. (Intended for those who have some aptitude for literary work.) *I, II*; (3). Mr. CURL

Prerequisite: Two years of college work and the consent of the instructor.

10. **Business Writing.**—Correspondence; sales letters; practise in writing business reports and summaries. Lectures and discussions. (Not counted toward a major in English.) *I or II*; (2).

Dr. CREEK, Mr. McJOHNSTON, Mr. WARNOCK, Mr. THURBER, Miss HARBARGER

Prerequisite: Rhetoric 1-2.

12. **The Collecting and Writing of News.**—Gathering news; writing the news-story; types of newspaper narratives; news values considered with the aid of representative newspapers on file in the laboratory. *I*; (3). Mr. HARRINGTON

Prerequisite: Rhetoric 1-2.

13. **The Newspaper.**—(A continuation of Rhetoric 12.) Interviewing and newspaper correspondence; the organization and mechanical details of the newspaper. Practise in writing for newspapers. *Six laboratory periods and three lectures a week.* *II*; (3). Mr. HARRINGTON

Prerequisite: Rhetoric 1-2, 12.

22. **Summarizing and Briefing.**—Summarizing, briefing, and making reports; abstracts of correspondence on file; summarizing of commercial and economic data for the solution of business problems. (For students in the College of Commerce and Business Administration.) *II*; (2). Mr. McJOHNSTON

Prerequisite: Rhetoric 10.

25-26. **Senior Conferences (Courses in Commerce and Business Administration).**—Each senior is required to present all papers written during the year for review and criticism. Rewriting may be required if they are open to serious criticism. (Required of all seniors in the College of Commerce and Business Administration.) *I, II*; (1). Mr. McJOHNSTON

19. **Agricultural News Writing.**—Class exercises; lectures; assignments in gathering and preparing material for agricultural papers. *II*; (3).

Assistant Professor SCOTT

Courses for Advanced Undergraduates and Graduates

15-16. **Editorials and Special Articles.**—Sources and treatment of material for editorials and articles; the interpretation of news; journalistic backgrounds; the relation of current events to the social sciences. Assigned readings; preparation of editorials, articles, and reviews. *I, II*; (3). Assistant Professor SCOTT

17. **Advanced Composition.**—Structure; criticism of current periodical literature; development of material for reports and magazine articles. (Open to a limited number of students, and only on recommendation.) *II*; (3).

Mr. WEIRICK

Prerequisite: Two years of college work.

27a-27b. Editorial Practise.—Reading "copy"; writing headlines; making up; editorial supervision; proof reading; type selection. *Five hours' work on the desk and one lecture a week.* I, II; (3). Mr. HARRINGTON

Prerequisite: Rhetoric 12, 13, or the consent of the instructor.

28. Newspaper Problems and Policies.—The relation of the newspaper to the public. I; (2). Mr. HARRINGTON

Prerequisite: Rhetoric 26-27.

29. Making a Country Newspaper.—Small town conditions; rural newsgathering; country correspondence; circulation; advertising; business efficiency; print-shop equipment. Special investigations by members of the class. (For seniors who expect to enter the country field.) II; (2). Mr. HARRINGTON

Prerequisite: Junior or senior standing.

D. PUBLIC SPEAKING

1. Oral Expression.—Theory and practise of elocution and expression, for public and private address. I; (2).

Mr. SARETT in charge, Mr. PHELPS, Mr. HARBISON, Mr. STOPP

Prerequisite: Rhetoric 1-2.

NOTE.—Credit is not given for this course unless it is followed by Public Speaking 2 or 10.

2. Extemporaneous Speaking.—Discussion of topics of current interest, assigned and chosen; adaptation of speaking manner to subject matter, length, and attendant circumstances of the address; cultivation of facility in thinking on the platform. II; (2).

Mr. SARETT in charge, Mr. PHELPS, Mr. HARBISON, Mr. STOPP

Prerequisite: Public Speaking 1.

3. Argumentation.—Argumentative discourse; meeting the contentions of an opponent; briefing; speech-writing; criticism of the literature of debate. Text and exercises. I; (3).

Mr. SARETT

Prerequisite: Public Speaking 1 and 2.

4. Debate.—The spoken debate; team and individual competition; debates on current issues. II; (3).

Mr. SARETT

Prerequisite: Public Speaking 3.

5. Persuasion.—The winning of individuals and audiences by means of written and spoken appeal; matter; platform manner, and methods. I; (2).

Mr. SARETT, Mr. HARBISON

Prerequisite: Public Speaking 1 and 2.

6. The Forms of Public Address.—Types and modes of speeches; speech style, criticism, and standards; practise in using various forms. II; (2).

Mr. SARETT

Prerequisite: Public Speaking 1 and 2.

7. A Study of Orators and Oratory.—The lives, times, and works of distinguished speakers; required readings and reports, chiefly oral in the form of speeches; discussions, topical speeches, and declamations. I; (2).

Mr. SARETT

Prerequisite: Public Speaking 1 and 2.

10. Interpretation and Dramatization of Literature.—Oral interpretation of standard literature; the interpretation and staging of plays. II; (2).

Mr. PHELPS

Prerequisite: Public Speaking 1.

Summer Session Courses

A—Literature and Language

S 1a. Survey of English Literature.—With S 1b this course covers the work of English 1. (2).

Dr. HILLEBRAND

Prerequisite: One year of college work or the equivalent.

S 1b. Survey of English Literature.—With English S 1a, this course covers the work of English 1. (2).

Dr. BOYER

Prerequisite: One year of college work or the equivalent.

S 12. American Literature.—Bryant, Irving, Cooper, Hawthorne, Emerson, Poe, Longfellow, Whittier, Lowell. Lectures, discussions, readings, and reports. (2).

Assistant Professor PAUL

Prerequisite: One year of college English or the equivalent.

S 23. Shakespeare.—Detailed study of Othello, Twelfth Night, and Henry V, with brief consideration of several other representative plays. (2½).

Professor UPHAM

Prerequisite: One year of college English or the equivalent.

S 33. English Literature from 1789 to 1837.—Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, and Landor; Edgeworth, Austen, Lamb, Hazlitt. (3).

Dr. BOYER

Prerequisite: Eleven hours of English literature, or eight hours of English literature and eight of a foreign language.

S 41. English for Teachers.—For description, see English 41. (2).

Assistant Professor PAUL

Prerequisite: Sixteen hours of English literature. Open to any upperclassman with the consent of the instructor.

***S 39. Spenser.**—The culture of the English Renaissance as illustrated by Spenser's poems. (3); (¾ unit).

Assistant Professor JONES

Prerequisite: Sixteen hours of English literature.

***S 45. Contemporary European Drama.**—The "theater of ideas," Teutonic naturalism, and the peasant drama of England and Ireland; modern stagecraft; work of contemporary dramatists. (3); (¾ unit).

Dr. HILLEBRAND

Prerequisite: Sixteen hours of English literature. Open to any upperclassman or graduate student with the consent of the instructor.

***S 135. Problems in American Literature.**—American prose and verse and European sources and influences. (½ unit).

Assistant Professor PAUL

Prerequisite: Graduate standing.

***S 136. The Rise of Neo-Classicism.**—The literary relations of France and England at the end of the seventeenth century. Lectures, readings, theses. (1 unit).

Prerequisite: Graduate standing.

B—Rhetoric

S 1. Rhetoric and Themes.—For description, see Rhetoric 1. (3).

Mr. TIEJE

S 2. Rhetoric and Themes.—For description, see Rhetoric 2. (3).

Mr. SUTCLIFFE

Prerequisite: Entrance credit in English.

S 3. English Composition.—For description, see Rhetoric 3. (3).

Assistant Professor JONES

Prerequisite: Rhetoric 1-2 or equivalent.

C—Public Speaking

S 1. Oral Expression.—Vocal methods and the relation of the voice to the interpretation of thought. (2).

Mr. WOOLBERT

Prerequisite: Rhetoric 1 and 2 or equivalent.

(This course does not yield credit until supplemented by Public Speaking 2, 10, or their equivalents.)

S 10. Interpretation and Dramatization.—Oral reading; stage action; staging and acting of several one-act plays. (2).

Mr. WOOLBERT

Prerequisite: Public Speaking 1 or equivalent.

S 11. Problems in the Teaching of Oral English.—Primarily for high-school teachers. (1).

Mr. WOOLBERT

Prerequisite: The consent of the instructor.

ENTOMOLOGY

STEPHEN ALFRED FORBES, Ph.D., LL.D., *Professor*

ALEXANDER DYER MACGILLIVRAY, Ph.D., *Associate Professor*

JUSTUS WATSON FOLSOM, D.Sc., *Assistant Professor*

ROBERT DOUGLAS GLASGOW, Ph.D., *Instructor*

EDNA MOSHER, Ph.D., *Instructor*

CHARLES STOCKMAN SPOONER, A.B., *Assistant*

JACOB RAY STEAR, B.S., *Assistant*

Major: 20 hours from courses offered in the department, except Entomology 1, 4, and 16.

Minors: 20 hours in botany, physiology, zoology, horticulture, and agronomy (see page 118).

Beginning courses open to freshmen and without prerequisites are 1a-1b, and 4. Course 1a-1b may be followed by 2 or 3, and course 15 by 7. Course 3 is not open to freshmen, and courses 5 and 15 are not open to freshmen or sophomores. Students preparing for service as economic entomologists should take as many of the courses offered as possible, including especially 2, 3, 4, 7, 8a-8b, and 108. Those preparing for the teaching of zoology should take either 2 and 4, 3 and 4, or 15 and 4.

1a-1b. Elementary Entomology.—Lectures; laboratory; field work. (Open to all students. Not applicable on group requirements of the College of Liberal Arts and Sciences unless both semesters are taken.) *I, II*; (2).

Assistant Professor FOLSOM, Dr. GLASGOW

2. General Entomology.—Field entomology; morphological and physiological entomology; the collection and preservation of specimens; laboratory studies of typical insects; the recognition of adaptive structures and their utilities. (This course, taken with Entomology 3, forms a year's work, covering the whole field, but either may be taken separately.) *I*; (5).

Assistant Professor FOLSOM, Dr. GLASGOW

Prerequisite: Entomology 1a-1b, or 4, or equivalent.

3. General Entomology.—Classification and determination of insects; study of life histories in the insectary and by field observation; collection of information on the ecological relations of insects. *II*; (5).

Assistant Professor FOLSOM, Dr. GLASGOW

Prerequisite: Entomology 1a-1b, or 4, or equivalent.

4. Introduction to Economic Entomology.—Lectures; field work; laboratory. (Primarily for students in the College of Agriculture; not counted for satisfaction of group requirements in the College of Liberal Arts and Sciences.) *I* or *II*; (3).

Assistant Professor FOLSOM, Dr. GLASGOW

5. Introduction to Research.—Preparation for thesis work. Library, language, manuscript, and advanced laboratory work on assigned topics. Three hours in this course are required as a preparation for entomological thesis work. *I*; (3-5).¹

Associate Professor MACGILLIVRAY, Assistant Professor FOLSOM

Prerequisite: Entomology 2, 3; or 15, 7.

6a-6b. Thesis Investigation.—Subjects selected during the junior year. Three hours a day given to investigation, under the supervision of an instructor during the senior year. *I, II*; (5).

Associate Professor MACGILLIVRAY, Assistant Professor FOLSOM

7. Systematic Entomology.—The external anatomy of insects; terminology of the parts; identification of specimens representing as many as possible of the major groups. *II*; (5).

Associate Professor MACGILLIVRAY

Prerequisite: Entomology 2, or 15.

8a-8b. Advanced Economic Entomology.—Assigned problems. Field laboratory, insectary, library, and manuscript work, with practise in the operations of economic entomology. (Intended to prepare students for service as entomologists in experiment stations and other state and government positions. Agronomy 7 and Horticulture 1, 2, and 3 should also be taken as a part of this preparation.) *I, II*; (3).

Assistant Professor FOLSOM, Dr. GLASGOW

Prerequisite: Entomology 4, 2, 3, or 4, 15.

9. Advanced Systematic Entomology.—The identification of the characters on which genera and species are based. *I*; (5).

Associate Professor MACGILLIVRAY

Prerequisite: Entomology 2 or 15, and 7.

10. Taxonomy of Immature Insects.—*I*; (5).

Associate Professor MACGILLIVRAY

Prerequisite: Entomology 2 or 15, and 7.

11. Classification of the Coccidæ.—Methods of preparing scale insects for study, the identification of genera and species, and discussion of their morphology, metamorphosis, and phylogeny. *II*; (5).

Associate Professor MACGILLIVRAY

Prerequisite: Entomology 2 or 15, and 7.

13. Medical Entomology.—Insects and the transmission of disease; methods of control and prevention. (Primarily for advanced students preparing for medicine.) *II*; (3).

Dr. GLASGOW

Prerequisite: Zoology 3, or its equivalent in microscopical technics.

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

15. Introductory Course.—Characteristics of the orders, suborders, and more important families; habits of representative species; anatomy of immature and adult insects; identification of special adaptive structures; classification. Lectures, quiz, field, or laboratory. (Not open to students who have had courses 2 and 3. Those who have had only one of the above courses may take this course for half credit only.) *I*; (5). Associate Professor MACGILLIVRAY, Dr. MOSHER

Prerequisite: Two years of university work.

16. Apiculture.—The essentials of bee-keeping. Practical operations; laboratory observations; collateral reading. *II*; (2).

Assistant Professor FOLSOM

17a-17b. Insect Organogeny.—More important systems of organs of adult and immature insects. Laboratory. *I, II*; (3). ($\frac{1}{2}$ unit).

Associate Professor MACGILLIVRAY, Dr. MOSHER

Prerequisite: Entomology 7 and 9; senior standing.

18a-18b. Insect Taxonomy.—Structures used in the classification of insects and the identification of a representative collection of insects. Laboratory, *I, II*; (5). Dr. MOSHER

Prerequisite: Three years of university work.

Courses for Graduates

The prerequisite for graduate work in entomology is one year's work in biological courses, including an equivalent of either Zoology 1 or Entomology 1a-1b, or 4. Entrance on major work in entomology requires the equivalent of Entomology 2 and 3.

Graduate students who have had at least one year of college work in biological courses may take for graduate credit any of the preceding courses except 1a-1b, 2, 3, 4, 6a-6b, and 13.

102. Research in the Morphology and Embryology of Insects.—*Twice a week; I, II; (1 or 2 units).*

Assistant Professor FOLSOM

108. Research in Economic Entomology.—*Once or twice a week; I, II; (1 or 2 units).*

Assistant Professor FOLSOM

109. Research in Systematic Entomology.—*Twice a week; I, II; (1 or 2 units).*

Associate Professor MACGILLIVRAY

Summer Session Courses

S 1. General Field and Laboratory Course.—Lectures; laboratory studies; field observations. (For high-school teachers.) (2).

Assistant Professor FOLSOM

S 3. Economic Entomology.—Stages of development of common injurious insects. Laboratory; field trips. (3).

Assistant Professor FOLSOM

***S 2. Advanced Course.**—Instruction to meet the purposes of the individual student. (2 or 3).¹

Assistant Professor FOLSOM

***S 4. Advanced Economic Entomology.**—Assigned problems in economic entomology, to prepare advanced students for immediate service as state and government entomologists. (3).

Assistant Professor FOLSOM, Mr. GLASGLOW

Prerequisite: 15 hours' credit in general and economic entomology.

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

FARM MANAGEMENT

(See ANIMAL HUSBANDRY.)

FINE ARTS

(See ART AND DESIGN and MUSIC. Attention is called also to the courses in Esthetics offered by the departments of PHILOSOPHY, EDUCATION, ARCHITECTURE, and HOUSEHOLD SCIENCE.)

FLORICULTURE

(See HORTICULTURE.)

FRENCH

(See ROMANCE LANGUAGES AND LITERATURE.)

GENETICS

(See ANIMAL HUSBANDRY.)

GEOLOGY

(Including MINERALOGY, PALEONTOLOGY, and GEOGRAPHY.)

ELIOT BLACKWELDER, Ph.D., *Professor*CHARLES WESLEY ROLFE, M.S., *Professor*WILLIAM SHIRLEY BAYLEY, Ph.D., *Professor*THOMAS EDMUND SAVAGE, Ph.D., *Associate Professor*FRED HALL KAY, B.S., *Lecturer (Assistant State Geologist)*JOHN LYON RICH, Ph.D., *Instructor*FRANCIS MAURICE VAN TUYL, Ph.D., *Instructor*CLARENCE SAMUEL ROSS, A.M., *Assistant*HENRY METHUSALEM DUBOIS, A.M., *Assistant*LUTHER EUGENE KENNEDY, A.M., *Assistant*

Major: One of the elementary courses (1, 3, 13, 5, 35, or 40), followed by 20 hours, in one of the following fields: (a) general geology, (b) paleontology and stratigraphy, (c) mineralogy and petrography, (d) geography. For these the following sequences of courses are suggested: (a) 1, or 3, or 13, 5, 5a, 36, 15, 23, 9, 16, 17; (b) 40, 1 or 3, 16, 17, 22; (c) 1, 3 or 13, 5, 5a, 15, 6, 7, 2; (d) 35, 23, 37, 11, 10, 8, 14 and 24.

Minors: 20 hours selected from any one or two of the following departments: astronomy, botany, chemistry, entomology, and zoology.

Credit will be given for only one of courses 1, 3, and 13, and only two hours' credit in course 35 to students who have taken either 1 or 3, or vice versa. Not more than two of the six elementary courses may be counted in the 20 hours required for a major.

Courses for Undergraduates

1. General Geology.—The material and structure of the earth; the processes of change; its history. Four hours discussion; two hours laboratory; two field trips. (Not open to students who have had Geology 3 or 13.) *I or II*; (5).

Professor BLACKWELDER, Dr. VAN TUYL, Mr. KENNEDY

3. Elementary Geology.—Physical, historic, and economic geology and mineralogy. Lectures; laboratory; field work; occasional excursions on Saturdays. (Not open to students who have had Geology 1 or 12.) *I or II*; (5).

Professor ROLFE, Mr. KENNEDY

35. General Physiography.—Features and processes of the lands, oceans, and atmosphere. Recitations; laboratory; one or two Saturday field trips. (Students who have had Geology 1 or 3 will receive only two hours' credit in Geology 35.)
I or II; (5) Dr. RICH

5. General Mineralogy.—The commoner minerals of scientific and economic importance; crystallography and blow-pipe analysis. Lectures; laboratory.
I; (5). Professor BAYLEY, Mr. ROSS

Prerequisite: Chemistry 1 and 2, or equivalent.

5a. Rock-Forming Minerals.—(A continuation of course 5.) The silicate minerals. Lectures; laboratory. II; (3).
Dr. VAN TUYL, Mr. ROSS

Prerequisite: Geology 5.

22. History of Organic Evolution.—The evolution of plants and animals, as indicated by the fossil record. I; (3).
Associate Professor SAVAGE

Prerequisite: Geology 1 or 3, or Zoology 1, or Botany 1.

13a. Physical Geology.—Minerals and rocks. (Especially for students in technical courses.) Lectures; laboratory. I; (3).
Dr. VAN TUYL, Mr. ROSS

Prerequisite: Chemistry 1, 2a; Physics 1a-1b, or equivalent.

13b. Physical Geology.—Dynamic and structural geology. Lectures; laboratory. II; (3).
Professor BAYLEY, Mr. ROSS

Prerequisite: Geology 13a.

12. Geology of Soils.—Geological processes in soil formation; origin of the various classes of soils; mineral compositions; physical characteristics; transformations. Occasional excursions on Saturdays. (For students of agriculture and others interested in plant growth.) II; (5).
Professor ROLFE, Mr. KENNEDY

Prerequisite: Chemistry 1 or its equivalent.

14. Meteorology.—The atmosphere and its processes; ocean currents; climate, weather, and forecasting. I; (3).
Professor ROLFE

2. Economic Geology.—The origin and distribution of the important mineral deposits of North America. Lectures; recitations. II; (3).

Dr. VAN TUYL

Prerequisite: Geology 1 and 5, or 13b.

36. Petrology.—Laboratory and field identification of the common rocks.
II; (2).
Dr. VAN TUYL

Prerequisite: Geology 5.

3. Geography of Europe.—The effect of the physiographic features of Europe on its climate, resources, population, and industries. II; (3).
Professor ROLFE

Prerequisite: Geology 1, 3, or 35.

10. Geography of Central and South America.—Physiography, climate, and resources of South and Central America and their influence on development. II; (3).
Dr. RICH

Prerequisite: Geology 35, 1, or 3.

[11. Geography of North America.—Similar to Geology 10. Lectures; reading; map study. II; (3). Not given, 1916-17; given in 1917-18 and alternate years.

Prerequisite: Geology 35, 1, or 3.]

37. Principles of Geography.—The influence of topography, climate, and other geographical factors on human life and history. Recitations, readings and map studies. *I*; (3). Dr. RICH

Prerequisite: Geology 35, 1, or 3.

[38. Regional Geology of North America.—The characteristics of individual geologic provinces. Recitations. *II*; (3). Not given, 1916-17; given in 1917-18 and alternate years.]

39. Geology of Illinois.—Stratigraphy, structure, geologic history, and resources. *II*; (3). Associate Professor SAVAGE

19. Field Geology.—Excursion, during the Easter recess, to some important district within 300 miles of Urbana. The cost of the trip will be about \$30.00. Credit on basis of written report. *II*; (1). Members of the department

Prerequisite: Geology 1, 3, 13b, or 35.

19a. Field Geology.—Students who have had Geology 19 and wish to visit another locality the following year should register for 19a. The conditions are the same as for 19. *II*; (1). Members of the department

Courses for Advanced Undergraduates and Graduates

NOTE.—Junior standing is required for these courses.

6. Optical Mineralogy.—Microscopic study of minerals, by means of their behavior in polarized light. Lectures; laboratory. *I*; (3).

Professor BAYLEY, Mr. ROSS

Prerequisite: Geology 13a or 5.

7. Petrography.—Types of rocks; their origin and classification. Study of representative suite of specimens in the hand specimen and thin section. *II*; (3).

Professor BAYLEY, Mr. ROSS

Prerequisite: Geology 6.

9. Invertebrate Paleontology.—Fossils, in biological groups. Lectures; laboratory. *I*; (5).

Associate Professor SAVAGE, Mr. DuBois

Prerequisite: Geology 1 or 3; or 12 hours in zoology.

23. Physiography of the Lands.—The making of topographic features as controlled by such factors as climate and rock structure. Physiographic history. Recitations; laboratory; two Saturday field trips. *II*; (3). Dr. RICH

Prerequisite: Geology 35, 1, 3, or 13b.

15. Structural Geology.—Rock deformation and its results. Discussions; laboratory. *II*; (3). Professor BLACKWELDER

Prerequisite: Geology 1, 3, or 13b.

16. Stratigraphy.—The successive geologic formations and the fossil faunas by which they are correlated, with special reference to the United States. *II*; (5).

Associate Professor SAVAGE, Mr. DuBois

Prerequisite: Geology 9 or 40.

[17. Earth History.—Physical conditions and events in the geological periods, with special reference to North America; evolution of life. Discussions; lectures. *II*; (3). Not given, 1916-17; given in 1917-18 and in alternate years.

Prerequisite: Geology 16.]

[21. **Geology of Coal.**—The nature, origin, occurrence, and distribution of coal deposits. *II*; (2). Not given, 1916-17; given in 1917-18 and alternate years.

Prerequisite: Geology 2 and 16.]

[24. **Physiographic Interpretations.**—Interpretation of recent earth history. *I*; (3). Not given, 1916-17; given in 1917-18 and alternate years.

Prerequisite: Geology 23.]

31. **Geology of Oil and Gas.**—Origin and relations of the natural hydrocarbons; their distribution in space and in rock sequence. (A two-day trip to the main oil fields of Illinois will be required, involving an expense of about \$10.00.) *II*; (3). Given in 1916-17 and alternate years. Mr. KAY

Prerequisite: One year of geology including Geology 1 or 3 or 13b, and junior standing.

41. **Advanced Field Geology.**—Detailed survey and analysis of a selected district. Professional standards in work and report required. (For 1917 the field will probably be in eastern Wyoming. Party limited to ten, approved in advance.) *Ten weeks in the summer*; (10). Professor BLACKWELDER

Prerequisite: Geology 15, 36, and 16, or equivalent.

45a-45b. **Geological Conference.**—All members and advanced students of the department meet to consider the results of investigations, reviews, and special lectures. Credit given only to those advanced students authorized to register for the course. *I, II*; (1). Professor BLACKWELDER

Prerequisite: An elementary course in geology.

Courses for Graduates

For graduate work in geology the student must have a thoro training in the principles of the science, and must have done advanced work in at least one of its branches. Except in unusual cases, which will be decided on their merits, at least 20 hours of geology and two or more weeks of field experience will be required. Graduate students with adequate technical preparation in other sciences may be admitted to graduate courses in certain subjects, such as crystallography and the history of organic evolution.

101. **Advanced Crystallography.**—Measuring, projecting, and calculating crystal forms, and determining the physical properties of crystallized bodies. *Three to five times a week*; *I, II*; (1 unit). Professor BAYLEY

[102. **Igneous Petrography.**—The igneous rocks, identification of types, classification, and relationships. Lectures; laboratory. *Twice a week*; *I, II*; (1 unit). Not given, 1916-17.]

[103. **Metamorphic Petrography.**—Microscopic study of the metamorphic rocks and the interpretation of their origin. *Twice a week*; *I, II*; (1 unit). Not given, 1916-17. Given in 1917-18 and alternate years. Professor BAYLEY]

105. **Paleontologic Problems.**—Fossil invertebrates, either by zoological groups or by geological periods. *One to three times a week*; *I, II*; (1 unit.)

Associate Professor SAVAGE

[107. **Structural Problems.**—Interpretation of selected districts; based on geologic maps and other field data. *Once a week*; *I, II*; (1 unit). Not given, 1916-17. Given in 1917-18 and alternate years.]

[108. **Ore Deposition.**—Problems in the origin of ore deposits, as illustrated by selected mining districts. *Three times a week*; *I, II*; (1 unit). Not given, 1916-17.

Professor BAYLEY]

[125. **Sedimentation.**—The interpretation of sedimentary rocks in terms of their origin. *Twice a week; I, II; (1 unit)*. Not given, 1916-17. Given in 1917-18 and alternate years. Professor BLACKWELDER]

[126. **Historical Problems.**—Important questions of geologic history. *Twice a week; I, II; (1 unit)*. Not given, 1916-17. Professor BLACKWELDER]

135. **Research.**—Individual work under the supervision of members of the staff in their respective fields. *Once a week; I, II*. Professor BLACKWELDER, Professor BAYLEY, Associate Professor SAVAGE, Dr. RICH

136. **Seminar in Physical Geology.**—Special problems in mineralogy, petrography, economic geology, metamorphism, and related subjects. *Once a week; I, II; (1 unit)*. Professor BAYLEY

137. **Seminar in Historical Geology.**—Special problems in historical geology, paleontology, correlation, and allied subjects. *Once a week; I, II; (1 unit)*. Professor BLACKWELDER, Associate Professor SAVAGE

GERMANIC LANGUAGES AND LITERATURE

(Including SCANDINAVIAN.)

JULIUS GOEBEL, Ph.D., *Professor*

OTTO EDUARD LESSING, Ph.D., *Professor*

GEORGE TOBIAS FLOM, Ph.D., *Associate Professor, Scandinavian*

NEIL CONWELL BROOKS, Ph.D., *Assistant Professor*

LEONARD BLOOMFIELD, Ph.D., *Assistant Professor, Comparative Philology*

JOSEPH EUGENE GILLET, Ph.D., *Associate, German and Comparative Literature*

CHARLES ALLYN WILLIAMS, Ph.D., *Associate*

DAISY LUANA BLAISDELL, A.M., *Instructor*

ARMIN HAJMAN KOLLER, Ph.D., *Instructor*

HEINRICH WALDEMAR NORDMEYER, Ph.D., *Instructor*

OSCAR FRIEDRICH WILHELM FERNSEMER, Ph.D., *Instructor*

MAXIMILIAN JOSEF RUDWIN, Ph.D., *Instructor*

BERNHARD ALEXANDER UHLENDORF, A.M., *Instructor*

HERMANN H WIEBE, A.M., *Assistant*

GERMAN

Major: 20 hours in German, excluding German 1, 2, and 3, and including at least 6 hours of primarily fourth-year courses.

Minors: 20 hours in not more than two subjects chosen from the following list: languages, education, history, philosophy, and psychology, provided that 8 hours must be selected from a language other than German.

GERMANIC LANGUAGES

Major: 20 hours in German and the Scandinavian languages, provided that at least 8 hours must be in German and 8 hours in one Scandinavian language. Only German courses above the second year, and Scandinavian courses exclusive of Scandinavian 6 and 12 will be acceptable.

Minors: 20 hours in not more than two subjects chosen from the following list: languages, education, history, philosophy, and psychology.

A. GERMAN

First-Year Courses

1. **Elementary Course.**—Grammar and easy reading for beginners. (Two sections are offered in the second semester for students who enter the University in the second semester.) *I* or *II*; (4). Assistant Professor BROOKS, Assistant Profes.or BLOOMFIELD, Dr. GILLET, Miss BLAISDELL, Dr. KOLLER, Dr. NORDMEYER, Dr. FERNSEMER, Dr. RUDWIN, Mr. UHLENDORF.

2. **Narrative Prose.**—Grammar and reading. *I*; (4)

Miss BLAISDELL, Mr. UHLENDORF, Mr. WIEBE

Prerequisite: One year of high-school German or German S 1, or German 1 taken in the second semester.

NOTE.—Students who have had no German for one year or more will be required to take a written test before entering German 2. This will be regarded as a *test of present ability in German* and not as an examination on any particular course previously taken in this subject.

3. **Narrative Prose.**—(Continuation of German 1.)—Reading and grammar. *II*; (4). Assistant Professor BROOKS, Assistant Professor BLOOMFIELD, Dr. GILLET, Dr. KOLLER, Dr. NORDMEYER, Dr. RUDWIN, Mr. UHLENDORF.

Prerequisite: German 1.

Second-Year Courses

4. **Prose Reading.**—Selections from standard prose writers; sight reading; composition. *I* or *II*; (4). Assistant Professor BLOOMFIELD, Dr. GILLET, Dr. WILLIAMS, Miss BLAISDELL, Dr. KOLLER, Dr. NORDMEYER, Dr. FERNSEMER, Dr. RUDWIN, Mr. UHLENDORF, Mr. WIEBE.

Prerequisite: German 2 or 3, or two years of high-school German.

5. **Narrative and Historical Prose.**—At the option of the instructor one classic in verse may also be read. Composition. *I* or *II*; (4). Dr. GILLET, Dr. WILLIAMS, Miss BLAISDELL, Dr. KOLLER, Dr. NORDMEYER, Dr. RUDWIN.

Prerequisite: German 4, or three years of high-school German.

6. **Scientific Prose.**—The rapid reading of works of a general scientific character. (Parallel with 5. Students may not take both 5 and 6 for more than a total of four hours' credit without special permission of department.) *II*; (4).

Dr. WILLIAMS, Dr. FERNSEMER, Dr. RUDWIN, Dr. UHLENDORF

Prerequisite: German 4, or three years of high-school German.

Third-Year Courses

7. **Modern Fiction.**—(Intended primarily for students who take course 5 in the first semester. Not open to those who have had any course more advanced than 5.) *II*; (3).

Assistant Professor BROOKS, Miss BLAISDELL

Prerequisite: German 5, or equivalent.

10. **Introductory Goethe Course.**—Reading of works illustrating different periods in Goethe's development: *Gätz von Berlichingen*; *Egmont*; *Iphigenie auf Tauris*; selections from *Dichtung und Wahrheit*. *II*; (3).

Assistant Professor BROOKS, Dr. FERNSEMER

Prerequisite: German 14, or 16, or 24, or 28a.

14. **Introductory Schiller Course.**—Works illustrating different periods in Schiller's development: *Lyrics and Ballads; Kabale und Liebe; Braut von Messina.* I; (3). Assistant Professor BROOKS, Dr. FERNSEMER

Prerequisite: German 5, or equivalent.

16. **Elementary Composition and Conversation.**—I or II; (2).

Assistant Professor BROOKS, Miss BLAISDELL, Dr. RUDWIN

Prerequisite: German 5, or equivalent.

17. **Intermediate Composition and Conversation.**—I or II; (3).

Assistant Professor BLOOMFIELD, Dr. FERNSEMER, Dr. RUDWIN

Prerequisite: German 16.

24. **Modern Drama.**—Rapid reading of dramas by Grillparzer, Hebbel, Hauptmann, and others. I; (3). Dr. KOLLER

Prerequisite: German 5, or equivalent.

28a-28b. **Lyrics and Ballads.**—Their form, development, and different types, the *Volkslied* of the eighteenth and nineteenth centuries and its influence. First semester: the early eighteenth century and the classical period. Second semester: the nineteenth century. (The first semester may be taken separately, but not the second without the first.) I, II; (2). Dr. WILLIAMS

Prerequisite: German 5, or equivalent, and sophomore standing.

Primarily Fourth-Year Courses

NOTE.—For a major in German students are required to take at least six hours of these primarily fourth-year courses; seniors who are preparing to teach German should take German 29.

8. **Schiller.**—The life of Schiller; *Wallenstein* and other selections. II; (3).

Professor LESSING

Prerequisite: Three years of college German, or equivalent.

11. **German Literature After the Reformation.**—Lectures; recitations; reports on assigned collateral reading. II; (3). Professor LESSING

Prerequisite: German 26.

25. **Teachers' Course.**—Discussion of methods; examination of text-books. (Open to seniors and special students who have 20 hours credit in German. This course may not be taken for credit by graduate students.) II; (2).

Dr. KOLLER

Prerequisite: German 29a or equivalent; completion of or registration in Education 1 or equivalent.

26. **German Literature to the end of the Reformation.**—Lectures; recitations; reports on assigned reading. I; (3). Professor LESSING

Prerequisite: German 10, or 24, or 28a-28b.

27. **Lessing.**—The life of Lessing. Study of his plays and dramatic theory. I; (3). Professor LESSING

Prerequisite: Three years of college German, or equivalent.

29a-29b. **Advanced Composition.**—Themes on Germany and German life, based on suitable reading, discussed in German. I, II; (3). Dr. NORDMEYER

Prerequisite: German 17 for 29a; 29a for 29b.

30a-30b. Thesis Course.—(Intended primarily for candidates for honors in German, but open to other seniors.) *I, II; (1 or 2).*¹ Professor GOEBEL, Professor LESSING, Assistant Professor BROOKS, Assistant Professor BLOOMFIELD.

Prerequisite: Senior standing in College, and three years of college German or equivalent.

31. Middle High German.—*I; (2).*

Professor GOEBEL

Prerequisite: Senior or graduate standing; three years of college German.

[32. History of German Civilization.—Readings; lectures; discussions. Not given, 1916-17. *I; (3).*

Assistant Professor BROOKS]

[39a-39b. Goethe and Schiller.—Interpretation of Goethe's poems. Goethe's *Tasso*; Schiller's *Ueber naive und sentimentalische Dichtung*. *I, II; (2).* Not given, 1916-17.

Professor GOEBEL]

Courses for Graduates

Students desiring to take German as a major should have completed a four years' course of undergraduate study in German, corresponding to the four years' course at this University, and should be familiar with the principal works of the writers of the classical and modern periods of German literature, show a general knowledge of the history of German literature, and be able to follow lectures in the German language.

A reading knowledge of Latin and French is required. It is desirable that candidates for the degree of Doctor of Philosophy have some knowledge of Greek. All students are expected to have had a course in German history.

101. Seminar in Germanic Philology.—Training in original research; results of special value may be published in the *Journal of English and Germanic Philology*. *Once a week; I, II; (1 unit).*

Professor GOEBEL

103. Introduction to the Historical Study of the Germanic Languages.—History of German philology; comparative grammar of the Old Germanic dialects. Lectures; discussions of special topics. *Twice a week; II; (1 unit).*

Professor GOEBEL

104. Gothic.—Grammar and literature. *Twice a week; I; (1 unit).*

Professor GOEBEL

105. Old High German.—Grammar and interpretation of the oldest literary documents. *Three times a week; II; (1 unit).*

Dr. WILLIAMS

109. Goethe's and Schiller's Philosophy.—*Twice a week; I, II; (1 unit).*

Professor GOEBEL

110. Early German Drama.—German drama to the time of the Reformation; medieval religious drama; Shrovetide plays; beginning of the humanistic drama. *Twice a week; I; (1 unit).*

Assistant Professor BROOKS

113. German Literature of the Fifteenth and Sixteenth Centuries.—Survey of the literature on the background of the general history of the time; Luther and the Reformation; Mastersingers and folksongs; the Reformation drama; Hans Sachs; Brant; Fischart; the chap books; the English comedians. *Twice a week; II; (1 unit).*

Assistant Professor BROOKS

115. History of German Literature of the Nineteenth Century.—*Twice a week; I, II; (1 unit).*

Professor LESSING

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

- [116. **Medieval German Literature with Reference to Political, Religious, and Social History.**—Research. *Twice a week, I; (1 unit)*. Not given, 1916-17.
Professor LESSING]
- [117. **History of German Literature during the Eighteenth Century.**—*Twice a week; I, II; (1 unit)*. Not given, 1916-17.
Professor LESSING]
118. **The German Drama Since Schiller.**—Research. *Twice a week; I; II; (1 unit)*.
Professor LESSING]
- [119. **The German Novel.**—Research. *Twice a week; I, II; (1 unit)*. Not given, 1916-17.
Professor LESSING]
- [121. **Walther von der Vogelweide.**—Lectures and interpretations. *Twice a week; II; (1 unit)*. Not given, 1916-17.
Professor GOEBEL]
- 121a. **The Nibelungenlied.**—Lectures and interpretations. *Twice a week; II; (1 unit)*.
Professor GOEBEL]
- [121b. **Gudrun.**—Lectures and interpretations. *Twice a week; II; (1 unit)*. Not given, 1916-17.
Professor GOEBEL]

B. SCANDINAVIAN

Undergraduate Courses Not Open to Freshmen

- 1a-1b. **Elementary Norwegian.**—Grammar; conversation; reading from Björnson, Lie, and Ibsen. *I; (3); II; (2)*.
Associate Professor FLOM]
- [2a-2b. **Elementary Swedish.**—Grammar; pronunciation; composition; easy reading. *I, II; (2)*. Not given, 1916-17.
Associate Professor FLOM]
- 4a-4b. **Swedish (Intermediate Course).**—Review of parts of the grammar; composition; Strindberg: *Lycko-Pers resa*; lyric poetry; Tenger: *Frithiofs saga*. *I, II; (2)*.
Associate Professor FLOM]

Prerequisite: Scandinavian 2a-2b.

6. **Ibsen's Social Dramas.**—Lectures; interpretation of four dramas; Ibsen's technique. Archer's translation is used. *II; (2)*.
Associate Professor FLOM]

Prerequisite: Junior standing.

12. **Norse Mythology.**—Primitive religion; the religious beliefs of the Norseman in pre-Christian times; sources; interpretation of the principal myths. *I; (2)*.
Associate Professor FLOM]

Prerequisite: Junior standing.

16. **Introduction to the History of Scandinavian Culture.**—Lectures on the civilization of Scandinavia from the Stone Age to 1000 A. D. *I; (2)*.
Associate Professor FLOM]

- [40. **Germanic Mythology.**—Lectures; interpretation of the sources. *II; (2)*. Not given, 1916-17.
Associate Professor FLOM]

Courses for Advanced Undergraduates and Graduates

14. **History of Old Norse Literature.**—Lectures. *II; (2)*.
Associate Professor FLOM]

Courses for Graduates

Preparation for graduate work in the Scandinavian languages or literature must include a reading knowledge of one of the Scandinavian languages and systematic work in the undergraduate courses in Scandinavian or their equivalent. Any graduate student in language may, however, be admitted to the purely philological courses.

101. Old Norse.—The language as a member of the Germanic group; relationship to Gothic and Old English; phonological exercises. Reading of prose texts (*Edda* and *Volsungasaga*). *I, II*; (*1 unit*). Associate Professor FLOM

Summer Session Courses

A. GERMAN

- S 1. Beginners' Course.**—(4). Assistant Professor BLOOMFIELD, Dr. GILLET
- S 2. Intermediate Course.**—(Open to those who have had German 1 the regular university year or its equivalent.) (3). Mr. KLINE
Prerequisite: German 1 or its equivalent.
- S 3. Prose Reading.**—Narrative prose; sight translation; composition. (3). Mr. KLINE
Prerequisite: German 3 or its equivalent.
- S 4. Readings from the Classics.**—Suderman's *Teja* (2). Dr. PUCKETT
Prerequisite: German 4 or its equivalent.
- S 5. Prose Composition and Conversation.**—Translation of ordinary prose into German; idiomatic constructions; free composition and conversation. (2). Dr. GREEN
Prerequisite: Two years of university German or the equivalent.
- S 6. Modern Drama.**—Rapid reading of dramas by Kleist, Hebbel, and others. (2). Dr. GREEN
Prerequisite: Two years of university German or the equivalent.
- S 7. Modern Fiction.**—Rapid reading of representative short stories. (2). Dr. PUCKETT
Prerequisite: Two years of university German or an equivalent.
- *S 11. History of German Literature Since the Reformation.**—(2). Dr. PUCKETT
Prerequisite: Three years of university German or the equivalent.
- *S 14. Elementary Readings in Middle High German.**—German language and literature of the Middle Ages. ($1\frac{1}{2}$). Dr. GREEN
Prerequisite: Three years of university German or the equivalent.
- *S 16. The Development of the Drama in Europe.**—Reading of representative dramas; lectures; reports. (Knowledge of French and German desirable but not required. May be counted toward a major in German.) ($1\frac{1}{2}$). Dr. GILLET
Prerequisite: Junior standing.
- *S 17. Science of Language for Teachers.**—Phonetics; applications of linguistic science to methods and practise in language-teaching. (May be counted toward a major in German.) (1). Assistant Professor BLOOMFIELD
Prerequisite: Senior standing.

GREEK

(See CLASSICS.)

HISTORY

EVARTS BOUTELL GREENE, Ph.D., *Professor*
 CLARENCE WALWORTH ALVORD, Ph.D., *Professor*
 LAURENCE MARCELLUS LARSON, Ph.D., *Professor*

ALBERT HOWE LYBYER, Ph.D., *Professor*
 WILLIAM SPENCE ROBERTSON,¹ Ph.D., *Assistant Professor*
 PAUL VAN BRUNT JONES, Ph.D., *Associate*
 THEODORE CALVIN PEASE, Ph.D., *Associate*
 ARTHUR CHARLES COLE, Ph.D., *Associate*
 NIELS HENRIKSEN DEBEL, Ph.D., *Instructor*
 ELIZABETH PARNHAM BRUSH, A.M., *Assistant*
 JAY EARLL MILLER, A.M., LL. B., *Assistant*
 FRANKLIN CHARLES PALM, A.M., *Assistant*

Cooperating:

WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor, Greek*
 HOWARD VERNON CANTER, Ph.D., *Associate Professor, Latin*
 FRANK MALLORY ANDERSON Ph.D., *Professor of History at Dartmouth College*
(Summer Session)
 WILLIAM T LAPRADE, Ph.D., *Professor of History at Trinity College (Summer Session)*

Major: 20 hours, excluding History 1a and 2a, and including (a) either History 1b or 2b; (b) six hours selected from courses for advanced undergraduates and graduates; and (c) any other courses offered in the department.

Minors: 20 hours, including (a) either Economics 1 or Political Science 1 and 3; and (b) one or two of the following subjects; economics, political science, law, sociology, the history of any literature, history of education, philosophy, and physiography. Courses in any foreign language may be accepted in satisfaction of this requirement, if the student can show his ability to read ordinary historical prose in that language.

Courses for Undergraduates

1a-1b. Continental European History.—Europe from the fourth century to the present time. (The work of neither semester may be taken separately without special permission.) *I, II; (4).* Professor LYBYER, Dr. JONES, and assistants

NOTE.—Three credits for seniors.

2a-2b. English History.—First semester: political history of England to 1603; the larger social, economic, and religious movements. Second semester: the modern history of England; colonial and imperial development. *I, II; (3).*

Professor LARSON, Mr. MILLER

NOTE.—Two credits for seniors.

3a-3b. History of the United States.—First semester: the Colonial era; the Revolution; genesis of the Federal Constitution. Second semester: the United States under the Constitution. (Either semester may be taken separately.) *I, II; (3).* Professor GREENE, Dr. COLE, Dr. DEBEL

Prerequisite: One year of college work.

5. History of Greece.—*I; (3).* (See Greek 20.) Professor OLDFATHER

Prerequisite: One college course in history or the classics, sophomore standing.

6. History of Rome.—*II; (3).* (See Latin 19.)

Associate Professor CANTER

Prerequisite: One college course in history or the classics; sophomore standing.

17. The History of Illinois.—The political, economic, and social development of a typical commonwealth in the Middle West, considered in its relation to the general course of American History. *I; (2).* Dr. PEASE

Prerequisite: Junior standing in any college of the University.

¹On leave of absence.

18. The Teaching of History.—Preparation of students for the teaching of history in secondary schools. *I; (2).* Dr. COLE

Prerequisite: History 1a-1b, 3a-3b, or their equivalent; senior standing.

28a-28b. Thesis.—Special training in investigation for candidates for honors and for other seniors. *I, II; (2).* Professor GREENE

Courses for Advanced Undergraduates and Graduates

(Open to seniors and to juniors of high standing. The ability to use French and German is desirable.)

4a-4b. The Constitutional History of England.—First semester: institutional origins. Second semester: modern constitutional practise. (Important for students specializing in history, political science, or law.) *I, II; (3).*

Professor LARSON

Prerequisite: One year of college history.

8. Medieval Civilization.—The religious, economic, and intellectual development of medieval society. *I; (3).*

Professor LARSON

Prerequisite: History 1a-1b.

9a-9b. The Renaissance and the Reformation. The transition from medieval to modern ideals. *I, II; (3).*

Dr. JONES

Prerequisite: History 1a-1b.

11. Special Topics in Ancient History.—Methods of research in Greek and Roman history. The decline of ancient civilization. *II; (3).*

Professor OLDFATHER

13. The American Revolution, 1760-1783.—Colonial institutions on the eve of the Revolution; the controversy with the mother country; war and diplomacy; the transition from provincial to republican institutions. *I; (3).*

Professor GREENE

Prerequisite: History 3a.

14b. Constitutional History of the United States Since 1789.—*II; (3).*

Dr. COLE

Prerequisite: History 3b.

15. The Civil War and Reconstruction in the United States.—*II; (3).*

Dr. COLE

Prerequisite: History 3a-3b.

16a-16b. The Exploration and Colonization of the West.—First semester: the Mississippi Valley from the earliest European explorations to the close of the war of 1812. Second semester: the Mississippi Valley since 1815, and the progress of western expansion to the Pacific. (Either semester may be taken separately.) *I, II; (2).*

Professor ALVORD

Prerequisite: History 3a-3b.

19. France in the Feudal and Later Middle Ages.—(A reading knowledge of French is desirable.) *II; (3).*

Dr. JONES

Prerequisite: History 1a-1b.

20a. Europe From 1815 to 1871.—*I; (3).*

Professor LYBYER

Prerequisite: One year of college work in history or political science.

20b. Europe Since 1871.—*II; (3).*

Professor LYBYER

Prerequisite: One year of college work in history or political science.

21. The United States Since the Reconstruction.—Historical introduction to contemporary American politics. *I*; (3). Dr. COLE

Prerequisite: History 3a-3b.

23. England in the Seventeenth Century with Special Reference to the Puritan Revolution.—The influence of Puritanism on the institutions and ideals of modern England and America. *II*; (2). Dr. PEASE

Prerequisite: History 1a-1b or 2a-2b.

26. The Latin-American Colonies.—The political, economic, social, and intellectual life of Spain during the period of discovery; the exploration, settlement, and civilization of Spanish America and the Philippines; the exploration and colonization of Brazil. *I*; (3). Not given, 1916-17. Assistant Professor ROBERTSON

Prerequisite: History 1a-1b or 3a-3b.]

27. The History of Latin-America From the Wars of Independence to the Present Time.—The leading Latin-American states; political parties; existing governments; relations with Europe and the United States; the Old Regime in Texas, Mexico, and California. *II*; (3). Not given, 1916-17.

Assistant Professor ROBERTSON

Prerequisite: History 3a-3b.]

29. The Far East.—The contact of Western nations with the Far East from the sixteenth century to the present time. *II*; (2). Professor GREENE

Prerequisite: One year of college history, economics, or political science, and senior standing.

30. The Ottoman Empire and the Near East.—The history of the lands around the eastern Mediterranean; their international relations since the great Crusades. *I*; (3). Professor LYBYER

Prerequisite: One year of college history, economics, or political science, and senior standing.

Courses for Graduates

Graduate work in history presupposes two years of college work in this subject, or sixteen semester hours, which should include courses in European and American history corresponding roughly to History 1a-1b and 3a-3b in this University. Linguistic preparation, especially in French and German, is important. For medieval history some knowledge of Latin is essential, and Spanish is useful for certain fields of American history.

Advanced courses in history at the University of Illinois are of three kinds:

(1) For information and guidance in general reading. (2) Instruction in methodology, historiography, and bibliography. A part of this work (in course 103) is required of all graduate students in history during their first year. (3) Seminar courses for the study of special fields with a view to training in the methods of historical criticism and research.

Illinois Historical Survey.—Students have an opportunity to pursue research in western history in connection with the Illinois Historical Survey, an organization for the purpose of carrying on systematic studies in the history of Illinois.

Attention is also called to the fact that the University of Illinois has for some time cooperated with the Illinois State Historical Society and the Trustees of the State Historical Library, in the gathering and editing of archive material. As a result instructors and graduate students in the department have contributed from

time to time to the publications of these state organizations, and have been given useful training in the study of manuscript as well as printed material.

The Historical Club, consisting of graduate students in the department, which meets twice a month, gives an opportunity for informal discussion of historical topics.

101. Seminar in American History.—Bibliography; solution of typical problems; reports on the progress of investigations. *Two hours, once a week; I, II; (1 to 2 units).*

In connection with this course, direction in research is offered as follows:

- | | |
|--|------------------|
| A. American history before 1789. | Professor GREENE |
| B. American history since 1789. | Dr. COLE |
| C. The history of the West. | Professor ALVORD |
| D. American church history. | Professor GREENE |
| E. Latin-American history. Not given, 1916-17. | |

Assistant Professor ROBERTSON]

102. Studies in English History.—Selected problems from the history of England in the later middle ages and the early modern period. *Twice a week; I, II; (1 unit).*

Professor LARSON

103. Historiography and Historical Method.—Selected problems; studies of representative historians; readings in French and German historical literature. (Required of all candidates for an advanced degree in history who do not present evidence of similar training elsewhere.) *Twice a week; I, II; (½ unit).*

Professor LYBYER

104. Research in European History.—Direction is offered by members of the department as follows:

- | | |
|--|------------------------------------|
| A. Medieval history. | Professor LARSON |
| B. Modern history of Continental Europe. | Professor LYBYER |
| C. English history. | Professor LARSON |
| D. Renaissance and Reformation. | Dr. JONES |
| E. Asiatic Relations. | Professor GREENE, Professor LYBYER |
- I, II; (1 to 2 units).*

105. Studies in the History of the West.—Subject for 1916-17: The French Colonization of the Mississippi Valley. *Once a week; I, II; (1 unit).*

Professor ALVORD

Summer Session Courses

S 1b. European History, 378-1300.—For description see History 1. *(2½).*

Professor LAPRADE,

S 3c. American History, 1783-1861.—For description see History 3b. *(2½).*

Dr. COLE

(At least junior standing required.)

***S 22. The West in American History, 1850-1872.**—The part played by the West in the sectional controversy, in the Civil War, and in the problems of the early Reconstruction era. *(2½).*

Dr. COLE

Prerequisite: One college course in American history or its equivalent.

***S 23. The Foreign Policy of Great Britain, 1713-1815.**—*(2½).*

Professor LAPRADE

Prerequisite: One college course in European history or its equivalent.

***S 24. History of France since 1815.**—The changes of government in 1830, 1848, 1851-2, 1870-5; the connection of France with the unification of Germany and Italy; and the political, colonial, and diplomatic history of the Third Republic. (2½). Professor ANDERSON

Prerequisite: One college course in modern European history, or equivalent preparation.

***S 101. Investigation of Selected Topics.**—Personal conferences with graduate students who desire guidance in research. Dr. COLE

HORTICULTURE

JOSEPH CULLEN BLAIR, M.S., *Professor, Horticulture*
 JOHN WILLIAM LLOYD,¹ M.S., *Professor, Olericulture*
 CHARLES SPENCER CRANDALL, M.S., *Professor, Pomology*
 CHARLES MULFORD ROBINSON, A.M., *Professor, Civic Design*
 HERMAN BERNARD DORNER, M.S., *Assistant Professor, Floriculture*
 BETHEL STEWART PICKETT, M.S., *Assistant Professor, Pomology*
 RALPH RODNEY ROOT, M.L.A., *Assistant Professor, Landscape Gardening*
 ERNEST WINFIELD BAILEY, M.S., *Assistant Professor, Pomology*
 CHARLES ELMER DURST, M.S., *Associate, Olericulture*
 WARREN ALBERT RUTH, A.M., *Associate, Horticultural Chemistry*
 SIMEON JAMES BOLE, A.M., *Associate, Pomology*
 FRED WEAVER MUNCIE, Ph.D., *Associate, Floricultural Chemistry*
 FREDERICK NOBLE EVANS, M.L.A., *Associate, Landscape Gardening*
 ALFRED JOSEPH GUNDERSON, B.S., *Instructor, Pomology*
 WILLIAM SANFORD BROCK, A.B., B.S., *Instructor, Pomology*
 ARTHUR SAMUEL COLBY, M.S., *Instructor, Pomology*
 DUANE TAYLOR ENGLIS, Ph.D., *Instructor, Floricultural Chemistry*
 ERNEST MICHAEL RUDOLPH LAMKEY, Ph.D., *Instructor, Floricultural Pathology*
 WILLIAM TELL NICOLET, M.L.A., *Instructor, Landscape Gardening*
 HOWARD DEXTER BROWN, B.S., *Assistant, Olericulture*
 AUGUST GEORGE HECHT, B.S., *Assistant, Floriculture*
 LEON DEMING TILTON, B.S., *Assistant, Landscape Extension*
 JAMES HUTCHINSON, *Assistant, Floriculture*
 EDWARD GEORGE LAUTERBACH, B.S., *Assistant, Floricultural Pathology*

1a. **Elements of Horticulture.**—Fruit growing, vegetable gardening, and ornamental planting, with special reference to the farm home. Recitations; practical exercises. (Required of all freshmen in the General Curriculum in Agriculture.) I; (2). Assistant Professor PICKETT, Mr. RUTH, Mr. BOLE, Mr. GUNDERSON, Mr. BROCK, Mr. COLBY

1b. **Elements of Horticulture.**—(Continuation of 1a. Required of all freshmen in the General Curriculum in Agriculture.) II; (2).

Assistant Professor PICKETT, Mr. RUTH, Mr. GUNDERSON, Mr. BROCK, Mr. COLBY

2. **Small Fruits and Grapes.**—The grape, strawberry, raspberry, blackberry, dewberry, currant, gooseberry. History; extent of cultivation; soil; location; fertilizers; propagation; planting; tillage; pruning; insect enemies; diseases; varieties; harvesting, marketing. Lectures; reference readings; laboratory. II; (3). Mr. BOLE

Prerequisite: Horticulture 1a.

¹On leave of absence.

3. Vegetable Gardening.—Commercial vegetable production; survey of trucking sections; analysis of types of vegetable gardening; factors influencing earliness, fertilizing, insects, and diseases; irrigation; equipment; labor and management problems; marketing the leading crops. Lectures; reference readings; practical experience in the greenhouse and department gardens. *II*; (5).

Mr. DURST, Mr. BROWN

Prerequisite: Horticulture 1a and 1b or their equivalents.

4. Plant Houses.—Construction, cost, and maintenance; heating; ventilating. *I*; (4).

Assistant Professor DORNER

5. Plant Propagation.—Grafts; buds; layers; cuttings; seeds. Lectures; laboratory; quizzes. *II*; (5).

Assistant Professor DORNER, Mr. LAUTERBACH

6. Nursery Methods.—Some details of nursery management and their relation to horticulture in general. Lectures; reference readings. *II*; (2).

Assistant Professor BAILEY

Prerequisite: Horticulture 5; Entomology 4.

7. Spraying.—Materials, appliances, and methods employed in combating insects and fungus diseases. Lectures; reference readings; laboratory; field work. *II*; (3).

Mr. RUTH

Prerequisite: Horticulture 1a and 1b or their equivalents; Chemistry 1; Entomology 4.

8. Orcharding.—Pomaceous, drupaceous, and nut fruits; management of large commercial orchards; harvesting; grading; packing; storing; marketing. *I*; (5).

Professor CRANDALL, Assistant Professor BAILEY

Prerequisite: Two years of university work; Horticulture 1a and 1b or their equivalents; Horticulture 5; Botany 1; Entomology 4.

[9. Forestry.—Forest trees; uses; distribution; artificial production; relations of forest and climate; forestry legislation and economy. *II*; (2). Not given, 1916-17.

Prerequisite: Botany 1, or its equivalent.]

10a. Rural Improvement.—Landscape gardening in the open country and its relation to rural conditions, with special reference to the farm group. Lectures; reference readings; reports; occasional field trips. *I*; (2).

Assistant Professor ROOT

10b. Town Improvement.—The development of the town as an organism and the improvement of small communities, with special reference to the home grounds. Lectures; reference readings; reports; occasional field trips. *II*; (2).

Mr. EVANS

11. Study of Cultivated Plants.—The relationship and classification of economic and ornamental plants of the temperate zone; identification of species; examination of living plants and herbarium specimens. Lectures; assigned readings. *I*; (2).

Professor BLAIR, Professor CRANDALL

Prerequisite: Botany 4a.

12. Evolution of Horticultural Plants.—History, botanical classification, and geographical distribution of cultivated plants; modification under culture; theoretical causes and observed factors that influence variation, particularly food supply, climate, and cross-fertilization. *I*; (3).

Professor CRANDALL

Prerequisite: Two years of university work; Horticulture 8 and Botany 4a.

15a. Principles of Plant Growing.—Preparation of soils for greenhouse crops; fertilizers; potting and shifting plants; watering. Lectures; practical greenhouse work. *II*; (5). Assistant Professor DORNER, Mr. HECHT

Prerequisite: Horticulture 5; Botany 1.

15b. Commercial Crops.—Greenhouse plants and cut flowers for wholesale and retail markets; care and marketing of the crops. Lectures; greenhouse work. *I*; (5). Mr. HECHT

Prerequisite: Horticulture 15a.

17. Commercial Fruit Culture.—Practical work in orchards and greenhouses; reference readings; seminar. (A limited number of trips will be taken, cost not to exceed \$10.00. For students specializing in pomology.) *I*; (5).

Assistant Professor BAILEY

Prerequisite: Horticulture 8 or its equivalent.

18. Experimental Horticulture.—Methods and difficulties in horticultural investigations; the planning of experiments; recording and interpretation of results. (For advanced students preparing for experiment station work.) *II*; (5).

Professor BLAIR, Assistant Professor PICKETT

Prerequisite: Twenty hours' work in horticulture.

19. Amateur Floriculture.—Window gardening; growing of flowers upon the home grounds; containers; potting soils; fertilizers; preparation and planting of flower beds; propagation and culture of plants for window and garden. *I*; (3).

Mr. LAUTERBACH

21a. Landscape Design (Elementary Course).—Simple composition as applied to landscape design; types of drafting and presentation used in office practise. *I*; (4).

Assistant Professor ROOT, Mr. TILTON

Prerequisite: Architecture 32.

21b. Landscape Design (Second Course).—Private estates and gardens in city and suburban developments. *II*; (4).

Assistant Professor ROOT, Mr. TILTON

Prerequisite: Horticulture 21a.

22. Special Investigation and Thesis.—*I* or *II*; (5-10).¹

23a-23b. Landscape Design (Third Course).—Drafting; field trips; assigned readings; reports; occasional lectures. *I, II*; (4). Assistant Professor ROOT

Prerequisite: Horticulture 21b.

24a. Trees and Shrubs.—Lectures; reference readings; field trips. *II*; (3).

Assistant Professor ROOT, Mr. TILTON

Prerequisite: Botany 1.

24b. Trees and Shrubs.—(Continuation of 24a.) Lectures; reference readings; field trips. *I*; (3). Assistant Professor ROOT, Mr. TILTON

Prerequisite: Horticulture 24a.

25a-25b. Advanced Landscape Design.—Drafting; field trips; assigned readings; reports; occasional lectures; 15 hours' drafting per week. *I, II*; (5).

Mr. EVANS

Prerequisite: Horticulture 23b.

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

26a. Planting Design (First Course).—The planting of private estates and gardens. Problems. Planting; lectures; drafting; reference readings; field trips; planting specifications; reports. Six hours' drafting; one lecture. *II*; (3).

Assistant Professor ROOT

Prerequisite: Horticulture 23a, 24b.

26b. Planting Design (Second Course).—The planting of public properties, parks, city forestry work, golf courses, cemeteries. Problems. Lectures; drafting; conferences. Six hours' drafting; one lecture. *I*; (3).

Mr. EVANS

Prerequisite: Horticulture 26a.

27a-27b. Landscape Practise.—Principles of construction. The preparation of construction drawings such as grading plans, working drawings, specifications, and reports. *I, II*; (3).

Mr. TILTON

Prerequisite: Civil Engineering 32.

28. Exotics.—Temporary decorative plants used in landscape gardening. Lectures; planting plans; field trips. *II*; (1).

Mr. EVANS

Prerequisite: Horticulture 23b, 24b.

29a. Garden Design.—The garden in its relation to the house; architectural harmony, utilization, topographic conditions, and planting for architectural or horticultural emphasis. Eight hours' drafting; one lecture. *I*; (3).

Assistant Professor ROOT

Prerequisite: Architecture 32.

29b. Garden Design.—The designing of period gardens and their relation to garden design. Eight hours' drafting; one lecture. *II*; (3).

Mr. EVANS

Prerequisite: Horticulture 23a or Architecture 33.

30. Decorative and Bedding Plants.—Tropical and sub-tropical plants used in decorative work in the conservatory; tender plants used in outdoor bedding. Lectures; practical greenhouse work. *II*; (5).

Mr. HECHT

Prerequisite: Horticulture 15a.

31. Garden Flowers.—The propagation and growing of annuals, herbaceous perennials, bulbs, and shrubs for cut flowers and ornamental plantings. *I*; (3).

Assistant Professor DORNER

Prerequisite: Horticulture 5; Botany 1.

32. Floral Decoration.—Cut flowers and plants in decorative work; arrangement of flowers in baskets, designs, and bouquets; table decoration; house decoration. (For floricultural students.) *II*; (4).

Assistant Professor DORNER

33. Systematic Pomology.—Description, nomenclature, and classification of native and sub-tropical fruits; critical descriptions and identification with special reference to relationships and classifications of varieties. Training is given in judging and displaying fruits. *I*; (2).

Assistant Professor BAILEY

34. Vegetables Under Glass.—Practical training in the forcing of vegetables. Lectures; reference readings; laboratory. *I*; (3).

Mr. DURST, Mr. BROWN

Prerequisite: Horticulture 3, 15a.

35. Private Conservatory Work.—Types of plants for large conservatories; arrangement; care. *II*; (3).

Assistant Professor DORNER

Prerequisite: Horticulture 15a, 4.

36. History of Landscape Gardening.—Lectures; reference readings; library sketches; reports. *II*; (2).

Assistant Professor ROOT

37a. Civic Design.—Town remodeling; remedial problems in town planning. Lectures; field trips; reference readings; reports; drafting. *I*; (3).

Professor ROBINSON, Mr. EVANS

Prerequisite: Horticulture 41 or Political Science 4 or 34.

37b. Civic Design.—Town extension; preventive and preservative aspects of town planning. Lectures; reference readings; drafting; textbook. *II*; (3).

Professor ROBINSON

Prerequisite: Horticulture 37a.

38. Office Practise in Landscape Gardening.—Lectures; office work; reports. Practise in carrying out landscape plans in the field. *I* or *II*; (2).

Assistant Professor ROOT, Professor ROBINSON, Mr. EVANS

Prerequisite: Horticulture 27b, 23b.

39a-39b. Special Lectures.—Lectures by members of the faculty and invited lecturers, on the working out of problems in landscape gardening. (Certain inspection trips will be required of the class. The expense of these trips will be about \$2.00.) One lecture a week with written reports. *I, II*; (1).

Assistant Professor ROOT

Prerequisite: Permission of the instructor in charge.

40a. Trees and Shrubs (Advanced Course).—Laboratory; field and herbarium work; assigned readings; seminar conferences. *I*; (3).

Assistant Professor ROOT, Mr. EVANS

Prerequisite: Horticulture 24b.

40b. Trees and Shrubs (Advanced Course).—Special problems in the classification and arrangement of plants as to their leaf color. *II*; (3). Mr. EVANS

Prerequisite: Horticulture 24b.

41. Civic Design (Elementary Course).—Lectures introductory to city planning; reference readings; reports. *II*; (1).

Professor ROBINSON, Mr. EVANS

Prerequisite: Horticulture 23a.

42. Landscape Design (Elementary Course).—Design of private grounds in the country and city. Lectures; reference readings; reports; six hours' drafting per week. *II*; (3).

Assistant Professor ROOT, Mr. TILTON

Courses for Advanced Undergraduates and Graduates

43. Nutrition of Greenhouse Crops.—Soils and fertilizers; moisture and carbon dioxide content of the air; temperature as related to greenhouse crops; greenhouse practise in application to fertilizers, in watering, and in temperature and humidity regulation. Lectures; seminar; laboratory. *I*; (5). Dr. MUNCIE, Dr. ENGLIS

Prerequisite: Botany; Agronomy 9; Horticulture 3 or 15a.

44. Pomology Seminar.—Assigned topics; review of books, current technical journals, and other publications. For seniors and graduates specializing in pomology. *I, II*; (1).

Assistant Professor PICKETT

Courses for Graduates

At least two years of collegiate work in horticulture and allied subjects and specific preparation for the chosen topics are required for entrance upon major work in this department.

103. Olericulture.—Horticultural relationships, origins, breeding, fertilizing, cultural requirements, and improvement of vegetables. Conferences. *I, II*; (1 to 2 units; a student working part time and extending his study for the master's degree over two years may register for $\frac{1}{2}$ to 1 unit for each of the four semesters).

Professor BLAIR, Professor LLOYD

108. Pomology.—Special problems in the relationship, adaptation, improvement, propagation, cultivation, pruning, protection, preservation, or marketing of small fruits and orchard fruits. Conferences. *I, II; (1 to 2 units; a student working part time and extending his study for the master's degree over two years may register for ½ to 1 unit for each of the four semesters).*

Professor BLAIR, Professor CRANDALL, Assistant Professor PICKETT

115. Floriculture.—The horticultural status of flowering plants, or special problems in the culture of greenhouse plants. *I, II; (1 to 2 units).*

Assistant Professor DORNER, Dr. MUNCIE

116. Chemistry of Plant Nutrition.—The occurrence of organic compounds in plants; their significance in plant nutrition. Methods of analysis and investigation. Lectures; seminar; laboratory. *I, II; (¾ to 1¼ units).* Dr. MUNCIE

HOUSEHOLD SCIENCE

ISABEL BEVIER, Ph.M., *Professor and Director*

RUTH WHEELER, Ph.D., *Assistant Professor*

LURENE SEYMOUR, Ph.B., B.S., *Associate*

CORA EMELINE GRAY, M.S., *Associate*

MAUD EDNA PARSONS, A.B., *Associate and Director of Lunch Room*

FLORENCE HARRISON, B.S., *Associate*

LORINDA PERRY, Ph.D., *Associate*

LUCILE WHEELER, A.M., *Associate*

GEORGIA ELIZABETH FLEMING, B.S., *Instructor*

ANNA WALLER WILLIAMS, A.M., *Instructor*

LEONA HOPE, *Instructor*

MARY C DEGARMO, A.M., *Instructor*

JEAN GILBERT MACKINNON, A.M., *Instructor*

VIOLA JENNIE ANDERSON, M.S., *Instructor*

MARIE E FREEMAN, A.B., *Assistant*

BERNICE CORNELIA WAIT, *Assistant*

MARY MELVINA RECORDS,¹ *Assistant*

EXTENSION STAFF

ISABEL BEVIER, Ph.M., *Vice Director*

MAMIE BUNCH, A.B., *State Leader in Home Economics*

OLIVE B PERCIVAL, B.S., *Assistant*

FANNIE MARIA BROOKS, A.B., *Assistant*

ANNE I GREEN, B.S., *Assistant*

NAOMI OLIVE NEWBURN, A.B., *Assistant*

Major: 20 hours from any courses offered by the department, excluding Household Science 2 and 7, and including Household Science 3, 5, 6, and 12.

Minors: 20 hours from either (a) chemistry, bacteriology, and physiology; or (b) economics (a minimum of eight hours), along with one or two of the following subjects: art and design, education, history, psychology, and sociology.

Food

1. Selection and Preparation of Food.—Nature and uses; chemical composition; changes effected by heat, cold, or fermentation; selection; marketing expeditions; processes of manufacture; combinations. *II; (3).*

Miss LUCILE WHEELER, Miss MACKINNON, Miss ANDERSON

Prerequisite: Entrance credit in physics; Chemistry 1.

¹Resigned.

6. Economic Uses of Food.—(Continuation of Course 1.) The economics of the food question; uses and applications of preservatives. *I*; (3).

Miss LUCILE WHEELER, Miss MACKINNON, Miss ANDERSON

Prerequisite: Household Science 1.

14. Problems in the Preparation and Service of Food.—(Continuation of Courses 1 and 6.) Preparation and service of meals for a family; cost and dietetic values; preparation of food in quantities; individual problems in the manipulation of food materials. (Open to: (a) those who are preparing for lunch-room management; (b) those who are preparing for extension work; (c) in special cases, those who have completed the major in household science.) *I* or *II*; (3).

Miss GRAY, Miss WILLIAMS

Prerequisite: Household Science 1, 6; Chemistry 1, 2a; junior standing, and the consent of the instructor.

5. Dietetics.—Diet; the relation of food to health; influence of age, sex, and occupation on diet; the construction of dietaries; dietetic treatment of certain diseases. Laboratory. *I* or *II*; (3).

Miss DE GARMO

Prerequisite: Household Science 1, 6; Physiology 4; Chemistry 1, 2a.

18. Lunch-Room Management.—Organization and equipment of lunch rooms. Laboratory practise. (The class takes a trip to Chicago to inspect various types of lunch rooms. The cost of the trip is about \$15.00.) *I* or *II*; (5).

Miss PARSONS

Prerequisite: Household Science 1, 5, 6, 14; Economics 1 or 2, and senior standing.

4. Food and Nutrition.—The physiological, chemical, and bacteriological problems of food and nutrition. Individual investigation. *I*; (5).

Assistant Professor WHEELER

Prerequisite: Bacteriology 5; Chemistry 1, 2a, 13a, 9, 9c, five hours in botany or zoology; Household Science 1, 5, 6.

20. Infant Nutrition.—Lectures; readings, discussions. *II*; (2).

Assistant Professor WHEELER

Prerequisite: Household Science 5, and senior standing.

The House

2. Home Architecture and Sanitation.—Situation, surroundings, and construction of the house; hygiene, heating, lighting, ventilating, water supply, and drainage. House planning and sanitary plumbing, fixtures, and internal drainage; making skeleton plans. *I*; (2).

Professor BEVIER, Miss FLEMING, Miss WILLIAMS, Miss HOPE, Assistant Professor ASH, and others.

3. Elementary Home Decoration.—Evolution of the house and home; homes of primitive peoples; theory of color and its application in home decoration; furnishings from a sanitary and artistic standpoint. *II*; (2).

Professor BEVIER, Miss HOPE

Prerequisite: Art and Design 12; Household Science 2; junior standing.

10. Household Equipment and Management.—Expenditure of the income; organization of the household; care of the house and family; home nursing; domestic service problem. Laboratory work in practise apartment. *II*; (2).

Miss GRAY, Miss WILLIAMS

Prerequisite: Household Science 1, 2, 6; Economics 1 or 2; junior standing.

Textiles and Clothing

7. Textiles.—Development of the textile industry from primitive times to the present; the important fibers and materials made from them; movements for bettering textile conditions. *I* or *II*; (2). Miss SEYMOUR

21. Weaving.—Application of the principles of design to weaving. Lectures and laboratory. *I*; (1). Miss SEYMOUR

Prerequisite: Art and Design 1, 12; Household Science 7.

19. Dress Design.—Study of dress from artistic, historic, economic, and hygienic standpoints. Application of principles of design to silhouette, proportion, line, and color. *I*; (3). Miss HOPE

Prerequisite: Art and Design 1, 12; Household Science 7.

12. Clothing.—(Continuation of Course 19)—Demonstrations and laboratory work in drafting, cutting, fitting, and making of garments from designs previously prepared in Household Science 19. *II*; (3). Miss FLEMING

Prerequisite: Household Science 19.

17. Problems in the Study of Textiles.—Microscopic and chemical analysis of fabrics; dyeing; special problems. *II*; (3). Miss SEYMOUR

Prerequisite: Household Science 7, 12; Chemistry 1, 2a.

Courses for Teachers

11. Teachers' Course.¹—The best methods of presenting the work, and its correlation with other subjects. Practise in planning and presenting of courses. (Two inspection trips are made to other schools, one in April and one in May. The total cost does not exceed \$5.00.) *II*; (3).

Professor BEVIER, Miss SEYMOUR, Miss HARRISON

Prerequisite: Household Science 1, 2, 3, 5, 6, 7, 12, 13, and 19; laboratory work in sewing, Saturday morning, first semester; senior standing.

13. History of Home Economics.—The development of home economics as one of the factors in the education of women; the work in different types of institutions; the planning of courses for these types. *I*; (2).

Professor BEVIER, Miss HARRISON, Miss SEYMOUR

Prerequisite: Senior standing.

9. Individual Problems.—Different phases of home economics. *II*; (3).

Professor BEVIER

Prerequisite: Senior standing.

Economics of the Family

15. Economics of the Family Group.—The economic relations of the family as a whole and as individuals. Retail market; sources of income, and social and industrial conditions affecting them; child labor; economic position of women. *I* or *II*; (3). Dr. PERRY

Prerequisite: Household Science 3, 6, 10, 12.

Courses for Graduates

101. Home Economics.—Origin and development of home economics; industrial, educational, and sociological aspects. *Twice a week; I; (1 unit.)*

Professor BEVIER

¹ Millinery for those taking Household Science 11 is given from 10 to 12 o'clock on Saturday the second semester, and Sewing from 10 to 12 o'clock on Saturday the first semester.

102. Special Investigations.—Problems in the application of the principles of bacteriology, chemistry, and physiology to the ordinary processes used in the preparation of food; problems in nutrition. *Twice a week; I, II; (1 unit).*

Professor BEVIER, Assistant Professor WHEELER

103. Seminar.—Recent advances in nutrition. *Once a week; II; (½ unit).*

Assistant Professor WHEELER

104. Economic Problems of the Family Group.—An intensive study of the economic phases of selected problems of the household. *Twice a week; I, II; (1 unit).*

Dr. PERRY

Summer Session Courses

Foods.—The work offered in foods is of two grades: (a), that designed for those who have studied or taught household science and wish to prepare themselves to teach it in high schools; (b) advanced work dealing with the general subject of nutrition.

S 1. Sources and cost of foods, the cooking of various types; planning and service of meals. *(1½).*

Miss MACKINNON

S 2. Relative nutritive value of foods; dietetic values; the relation of foods to the human body. *(1½).*

Miss MACKINNON

Prerequisite: A year's work of college rank with foods; a year of general chemistry; a course in general physiology.

S 4. Clothing.—Textiles used in clothing; cost and care of clothing; use of patterns; drafting; making of clothing. Lecture; discussion; laboratory. *(2).*

Miss FLEMING

NOTE: S 4 may be substituted for Household Science 12 with the exception of the lecture in Household Science 12.

S 5. Millinery.—Wire, buckram, and cape net frames; covering with velvet and straw. Demonstrations; laboratory. *(1).*

Miss FLEMING

S 6a. Costume Design.—Appropriate dress; proportion of parts; outline of figure and color harmony. Lectures and laboratory. *(1½).*

Miss HOPE

NOTE: S 6a may be taken as an equivalent for Household Science 19 by arranging with the instructor for extra work.

S 6b. House Decoration and Furnishing.—History of furniture; perspective drawing of rooms; color schemes; weaving. Lectures and laboratory. *(1½).*

Miss HOPE

NOTE: S 6b may be taken as an equivalent for Household Science 3 by arranging with the instructor for extra work.

ITALIAN

(See ROMANCE LANGUAGES AND LITERATURE.)

JOURNALISM

(See RHETORIC 12, 15, 17, 19, under THE ENGLISH LANGUAGE AND LITERATURE.)

LANDSCAPE GARDENING

(See HORTICULTURE.)

LATIN

(See CLASSICS.)

LAW

HENRY WINTHROP BALLANTINE, A.B., LL.B., *Professor and Dean*
 OLIVER ALBERT HARKER, A.M., LL.D., *Professor*
 FREDERICK GREEN,¹ A.M., LL.B., *Professor*
 EDWARD HARRIS DECKER, A.B., LL.B., *Professor*
 JOHN NORTON POMEROY, A.M., LL.B., *Professor*
 WILLIAM GREEN HALE, B.S., LL.B., *Professor, Secretary*
 BARRY GILBERT, A.B., LL.B., *Professor*
 CHARLES ERNEST CARPENTER, A.M., LL.B., *Assistant Professor*

First Year Courses

- 1a-1b. Contracts.**—Keener's *Cases on Contracts* and Ballantine's *Problems in Law of Contracts*. I; (4): II; (2). Professor DECKER
- 2a-2b. Torts.**—Ames and Smith's *Cases on Torts*. I; (2): II; (3). Professor HALE
- 3. Real Property.**—Warren's *Cases on Property*. II; (3). Assistant Professor CARPENTER
- 5. Criminal Law.**—Mikell's *Cases on Criminal Law and Procedure*. I; (3). Professor BALLANTINE
- 6. Personal Property.**—Warren's *Cases on Property*. I; (3). Assistant Professor CARPENTER
- 7. Domestic Relations.**—Kales' *Cases on Persons* (2nd edition). II; (1). Professor GILBERT
- 11a. Agency.**—Wambaugh's *Cases on Agency*. II; (3). Assistant Professor CARPENTER
- 37. Introduction to the Study of Law and Brief Making.**—I; (2): II; (2) Professor DECKER

Second or Third Year Courses

- 4. Common Law Pleading.**—Whittier's *Cases on Common Law Pleading*. I; (3). Professor BALLANTINE
- 8. Evidence.**—Thayer's *Cases on Evidence* (2nd edition). II; (4). Professor HALE
- 9. Sales.**—Williston's *Cases on Sales* (2nd edition). I; (3). Professor HALE
- 10. Real Property.**—Aigler's *Cases on Property* (2nd edition). II; (4). Professor BALLANTINE
- 12a-12b. Equity.**—Ames' *Cases on Equity*. I; (3): II; (2). Professor POMEROY
- 13. Damages.**—Beale's *Cases on Damages* (2nd edition). I; (2). Professor DECKER
- [14. Carriers.**—Green's *Cases on Carriers*. II; (3). Not given, 1916-17.]
- 15. Bills and Notes.**—Huffcut's *Cases on Bills and Notes* (Colson's edition). I; (3). Professor GILBERT
- 16. Trusts.**—Ames' *Cases on Trusts* (2nd edition). II; (3). Professor GILBERT

¹On leave of absence.

18. **Wills.**—Gray's *Cases on Property* Vol. IV (2nd edition). II; (2).
Professor POMEROY
19. **Partnership.**—Gilmore's *Cases on Partnership* (2nd edition). I; (2).
Professor HALE
20. **Equity Pleading.**—*Selected Illinois and Federal Cases on Equity Pleading*;
II; (2). Professor HARKER
24. **Municipal Corporations.**—Beale's *Cases on Municipal Corporations*.
II; (2). Professor POMEROY
- [27. **Future Interests in Property.**—II; (3). Not given, 1916-17. Given in
alternate years.]
- [28. **Insurance.**—I; (2). Not given, 1916-17. Given in alternate years.]
30. **Public International Law.**—Lawrence's *Principles of International Law*
and Scott's *Cases on International Law*. I; (3). Professor GARNER
32. **Quasi-Contracts.**—Thurston's *Cases on Quasi-Contracts*. I; (2).
Assistant Professor CARPENTER
34. **Public Utilities.**—Burdick's *Cases on Public Service Companies* (2nd
edition). II; (2). Professor BALLANTINE
- 35a. **Brief Making.**—Lectures and problems for briefing. I; (1).
Professor DECKER
- 35b. **Moot Court.**—II; (1).
Professor HARKER
- Prerequisite:* Law 4 and 35a.

Third Year Courses

- 4a. **Illinois Procedure.**—I; (3). Professor HARKER
17. **Private Corporations.**—Canfield and Wormser's *Cases on Private Cor-
porations*. II; (4). Professor GILBERT
21. **Suretyship.**—Ames' *Cases on Suretyship*. II; (3). Professor DECKER
Prerequisite: Law 15.
22. **Constitutional Law.**—McClain's *Cases on Constitutional Law*. I; (4).
Professor GILBERT
23. **Mortgages and the Recording Acts.**—Wyman's *Cases on Mortgages*. II;
(2). Professor POMEROY
25. **Bankruptcy.**—Williston's *Cases on Bankruptcy* (2nd edition). I; (2).
Professor POMEROY
29. **Office Practise.**—II; (2). Assistant Professor CARPENTER
31. **Conflict of Laws.**—Beale's *Shorter Selection of Cases on Conflict of Laws*.
I; (2). Assistant Professor CARPENTER
- 36a-36b. **Moot Court.**—I; II, (2). Professor HARKER
Prerequisite: Law 4, 20, and 35a.

LIBRARY SCIENCE

PHINEAS LAWRENCE WINDSOR, Ph.B., *Director*
 FRANCES SIMPSON, M.L., B.L.S., *Assistant Director, Assistant Professor*
 ERNEST JAMES REECE, Ph.B., *Associate*
 ETHEL BOND, A.B., B.L.S., *Instructor and Catalog Reviser*
 EMMA FELSETHAL, Ph.B., B.L.S., *Instructor and Reference Assistant*
 SABRA W VOGHT, A.B., B.L.S., *Instructor*
 EDNA LYMAN SCOTT, *Special Lecturer*
 FANNY E PRICE, B.S., *Reviser and Assistant*

LECTURERS FROM THE STAFF OF THE LIBRARY

FRANCIS KEESE WYNKOOP DRURY, A.M., B.L.S., *Lecturer, Order Work*
 PHILIP SANFORD GOULDING, A.B., *Lecturer, Cataloging*
 CHARLES EDWARD GRAVES, A.B., *Lecturer, Exchanges*
 ALICE SARAH JOHNSON, A.B., B.L.S., *Lecturer, General Reference*
 EMMA REED JUTTON, B.L.S., *Lecturer, Loans*
 ADAH PATTON, B.L.S., *Lecturer, Cataloging*
 MARGARET HUTCHINS, A.B., B.L.S., *Lecturer, General Reference*
 OLA M WYETH, A.B., B.L.S., *Lecturer*
 MARY TORRANCE, A.B., B.L.S., *Lecturer*
 WINIFRED FEHRENKAMP, B.L.S., *Lecturer*

EVA CLOUD, *Lecturer in the Summer Session*

2a-2b. Reference Work.—Methods of bibliographic research; use of reference books; practical work in the reference department of the University library. *I, II; (3).* Assistant Professor SIMPSON

3a-3b. Selection of Books.—Selection for libraries of different types; standard lists, critical periodicals, and other aids; practise in writing book annotations. *I, II; (2).* Miss FELSENTAL

4a-4b. Practise Work.—Work in the various departments of the University library. (To be taken with Library 2, 16, 17, 18, 19, 20, and 21.) *I, II; (2).*

Mr. REECE

6a-6b. Subject Bibliography.—Books in special subjects; literature and bibliography. Lectures by professors in the respective departments of the University. *I, II; (2).* Director WINDSOR, and others

7. History of Libraries.—The foundation, development, and resources of libraries of Europe and the United States. *I; (2).* Given, 1916-17, and in alternate years. Assistant Professor SIMPSON

8. Advanced Reference.—Transactions of learned societies; special periodicals and government publications; indexes and other works of value to a large reference department. *I; (2).* Assistant Professor SIMPSON

Prerequisite: Library 2a-2b.

[9. History of Books and Printing.—The early forms of books; the invention and spread of printing; book illustration; book-binding. *II; (2).* Given in alternate years. Not given in 1916-17. Director WINDSOR]

10a-10b. Practise Work.—(Continuation of Course 4, supplemented by one month of work on the staff of an assigned public library.) *I, II; (4).*

Mr. REECE

12. General Reference.—Classification and arrangement of books in the University library; card catalogs; reference books. (Intended for freshmen and sophomores in the University, not for students in Library School.) *I or II; (2).* Miss HUTCHINS, Miss FELSENTAL, Miss JOHNSON, Miss VOUGHT, Miss WILLIAMS

13a-13b. Public Documents.—13a: Production and distribution of United States documents; their treatment and use as reference books. 13b: American state and municipal documents; publications of foreign governments. *I, II; (2).*

Mr. REECE

15a-15b. Seminar in Library Economy.—Special problems; library economy publications. *I, II; (2).* Mr. REECE and others

16. Order, Accession, and Shelf Work.—Order department records and routine; book-buying; publishers and discounts; copyright; serials and continuations; gifts; exchanges; duplicates; the accession book and its substitutes; the shelf list and its uses; care of pamphlets, clippings, and maps. *I*; (2). Miss VOUGHT

17. Classification and Subject Headings.—Dewey Decimal and Cutter expansive systems; subject headings for dictionary catalog; book numbers. *I*; (3). Miss BOND

18. Cataloging.—Dictionary catalog; classed catalog. *I*; (3). Miss BOND

19. Trade Bibliography.—Books and periodicals used as tools of the book trade of America, England, Germany, and France. *II*; (1). Mr. REECE

20. Loan Department.—Records; representative systems; rules, regulations, and practises. *II*; (1). Miss BOND

21. Printing, Binding, and Indexing.—*Printing*: Printing for libraries; preparing copy and reading proof. *Binding*: Materials and methods of bookbinding for libraries; practise in preparing books for the bindery and in making necessary records. *Indexing*: Magazine and book indexing; marking copy, choice and arrangement of entries. *II*; (2). Director WINDSOR, Miss BOND

22. Library Legislation.—Organization and administration of public libraries, special libraries, state library agencies, library training, library periodicals; field trip (see p. 186). *II*; (3). Miss VOUGHT

23a-23b. Library Administration and Current Library Literature.—Current library periodicals, bulletins, reports, catalogs, and reading lists; organization, reorganization, and administration of small libraries; planning and equipment of reading rooms and small library buildings; library accounts and business forms. *I, II*; (1). Miss VOUGHT

24a-24b. Selection of Books.—English translation of representative works of French, German, Spanish, Italian, and Russian novelists, dramatists, and short story writers of the 19th and 20th centuries; examination of about forty newly published books each month. *I, II*; (2). Assistant Librarian DRURY, Miss FELSENTHAL

29. Comparative Classification and Cataloging.—The principal systems; rules for cataloging. *II*; (2). Miss BOND

Prerequisite: Library 17, 18.

26a-26b. Library Administration.—Advanced trade bibliography; library organization; library architecture; legislative and municipal reference work; library work with children; special topics; field trip (see page 186). *I, II*; (3). Assistant Professor SIMPSON and others

27. Bibliographical Institutions.—Organization and work of societies and institutions of America and Europe; cooperative bibliographical undertakings; international bibliography. *I*; (1). Mr. REECE

28. Practise Work.—Advanced practise work in departments of the University library. *II*; (1-4).¹ Mr. REECE

Summer Session Courses

NOTE: The courses indicated covered six weeks and received no university credit. Only people employed in libraries were admitted.

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course: e. g., not 1-4, but 1, or 2, or 3, or 4.

S 1. Classification; Cataloging; Book Numbers.—*Five times a week.*

S 2. Reference Work.—Reference books suited to the small public library. *Twice a week.*

S 3. Selection of Books.—Book selection and subject bibliography. *Twice a week.*

S 4. Work with Children.—Selection and discussion of children's books; administration of children's libraries; classification and cataloging. *Twice a week.*

S 5. Order and Accession; Loan Department; Binding and Repair.—*Twice a week.*

S 6. Library Administration and Extension.—*Twice a week.*

MANUAL TRAINING

Summer Session Only

JOSEPH C PARK, *Director of Industrial Education, Oswego, New York*

FRED L GRIFFIN, *Assistant in Art Metal Work*

JAMES MERION DUNCAN, *Assistant in Pattern Making*

The courses in manual arts have been arranged to satisfy the needs of three classes of students who attend the summer sessions; (1) superintendents, principals, and teachers in small schools who pursue the work with the idea of either teaching or supervising it in their schools; (2) manual arts teachers and supervisors who take the courses to increase their knowledge and experience; (3) students in other courses who take the work to enrich their experience.

S 1. Industrial Education.—Typical schools and systems of manual arts; schemes for the promotion of industrial education; organization; equipments and materials. (2½). Mr. PARK

S 2. Woodworking.—(For teachers in the seventh and eighth grades and high schools.) Tools; joints; arts and crafts furniture; talks, papers, problems, work at the bench. (Fee, \$5.) (3). Mr. PARK, Mr. DUNCAN

S 3. Woodworking.—(For teachers who have completed S 2). Cabinet making; designing and making furniture; wood turning. (Fee, \$5.) (3).

Mr. PARK, Mr. DUNCAN

S 4. Art Metal Work.—Use and care of tools; hammering from sheet copper, brass, and silver; raising, annealing, filing, sawing or piercing, etching, repousse, enameling, coloring; art lamps, lanterns, candlesticks, boxes, furniture fittings. (Fee, \$3.) (2½).

Mr. GRIFFIN

S 5 Jewelry.—Buckles, fobs, chains, necklaces, pendants, rings, setting of stones; casting silver; polishing and finishing metals; coloring by chemical and electrical methods. (Fee, \$3.) (2½).

Mr. GRIFFIN

MATHEMATICS

EDGAR JEROME TOWNSEND, Ph.D., LL.D., *Professor*

GEORGE ABRAM MILLER, Ph.D., *Professor*

HENRY LEWIS RIETZ, Ph.D., *Professor*

JAMES BYRNIE SHAW, D.Sc., *Associate Professor*

CHARLES HIRSCHSEL SISAM, Ph.D., *Assistant Professor*

ARNOLD EMCH, Ph.D., *Assistant Professor*

ROBERT D CARMICHAEL, Ph.D., *Assistant Professor*

ARTHUR ROBERT CRATHORNE, Ph.D., *Assistant Professor*

ERNEST BARNES LYTLE, Ph.D., *Associate*
 GUSTAF ERIC WAHLIN, Ph.D., *Associate*
 AUBREY JOHN KEMPNER, Ph.D., *Associate*
 WILLIAM WELLS DENTON, Ph.D., *Instructor*
 EDWARD WILSON CHITTENDEN, Ph.D., *Instructor*
 LEVI THOMAS WILSON, Ph.D., *Instructor*
 LYMAN M KELLS, Ph.D., *Instructor*
 JOHN ROGERS MUSSELMAN, Ph.D., *Instructor*
 CLARENCE MARK HEBBERT, M.S., *Assistant*
 RAYMOND FRANKLIN BORDEN, A.M., *Assistant*
 JOHN SHERMAN BEEKLEY, A.B., *Assistant*
 CHARLES FRANCIS GREEN, A.M., *Assistant*
 CLARENCE HUDSON RICHARDSON, B.S., *Assistant*
 JESSIE MARIE JACOBS, A.M., *Graduate Assistant*
 RUBY MABEL GRIMES, A.M., *Graduate Assistant*

Cooperating:

JOEL STEBBINS, Ph.D., *Professor of Astronomy*
 FRANK WALTER REED, Ph.D., *Instructor in Astronomy*
 HOBART D FRARY, M.E., M.S., *Assistant in Summer Session*

Major: 20 hours made up from any undergraduate courses offered by the department, except Mathematics 2, 4, and 8, and including Mathematics 7 and 9.

Minors: 20 hours selected from physics, chemistry, and astronomy.

Courses for Undergraduates

2. College Algebra.—*I* or *II*; (3). Assistant Professor SISAM, Assistant Professor EMCH, Dr. LYTLE, Dr. WAHLIN, Dr. KEMPNER, Dr. REED, Dr. DENTON, Dr. CHITTENDEN, Dr. WILSON, Dr. KELLS, Dr. MUSSELMAN, Mr. RICHARDSON, Mr. BORDEN, Mr. HEBBERT, Mr. BEEKLEY, Mr. GREEN.

Prerequisite: Entrance algebra, $1\frac{1}{2}$ units; plane geometry, 1 unit.

4. Plane Trigonometry.—*I* or *II*; (2). Assistant Professor CARMICHAEL, Dr. LYTLE, Dr. WAHLIN, Dr. KEMPNER, Dr. REED, Dr. DENTON, Dr. CHITTENDEN, Dr. WILSON, Dr. KELLS, Dr. MUSSELMAN, Mr. RICHARDSON, Mr. BORDEN, Mr. HEBBERT, Mr. BEEKLEY, Mr. GREEN.

Prerequisite: Entrance algebra, $1\frac{1}{2}$ units; plane geometry, 1 unit.

6. Analytic Geometry.—Plane and solid analytic geometry. *II*; (5). Professor MILLER, Associate Professor SHAW, Assistant Professor CARMICHAEL, Assistant Professor CRATHORNE, Dr. LYTLE, Dr. WAHLIN, Dr. KEMPNER, Dr. REED, Dr. DENTON, Dr. CHITTENDEN, Dr. WILSON, Dr. KELLS, Dr. MUSSELMAN, Mr. RICHARDSON, Mr. BORDEN, Mr. HEBBERT, Mr. BEEKLEY, Mr. GREEN.

Prerequisite: Mathematics 2, 4.

7-9. Differential and Integral Calculus.—The principles developed and applied to functions of one and of several variables. (Section A1 is an honor section and may be selected by those specializing in mathematics or having an average grade of 90 in freshman mathematics.) *I*; (5); *II*; (3). Professor TOWNSEND, Professor RIETZ, Assistant Professor SISAM, Associate Professor SHAW, Assistant Professor EMCH, Assistant Professor CARMICHAEL, Assistant Professor CRATHORNE, Dr. LYTLE, Dr. WAHLIN, Dr. KEMPNER, Dr. DENTON, Dr. CHITTENDEN, Dr. KELLS, Dr. MUSSELMAN.

NOTE: Two sections of Mathematics 7 are given the second semester.

8. Differential and Integral Calculus.—(For students in chemistry and chemical engineering.) *I*; (5). Professor MILLER, Dr. MUSSELMAN

Prerequisite: Mathematics 6.

9a. Differential and Integral Calculus.—(Second Course.) The definite (single and multiple) integral; the formation of problems in applied mathematics; line, surface, and volume integrals; the theorem of Stokes and Green; partial differentiation; exact integrals with applications of the conditions for exactness; elements of differential equations, approximate quadrature and integration of differential equations. *I*; (2). Professor SHAW, Assistant Professor CRATHORNE, Dr. DENTON, Dr. WILSON.

Prerequisite: Mathematics 7 and 9, or 8.

Courses for Advanced Undergraduates and Graduates

10. Theory of Equations and Determinants.—Fundamental properties of an algebraic equation in one unknown; the solutions of systems of simultaneous equations; theory of a system of linear equations; some fundamental properties of determinants. *I*; (3). Professor MILLER

Prerequisite: Mathematics 7 and 9, or 8.

16-17. Differential Equations and Advanced Calculus.—Ordinary and partial differential equations; special topics of calculus, of value in the application of mathematics. *I, II*; (3). Professor TOWNSEND

Prerequisite: Mathematics 7 and 9, or 8.

18. Constructive Geometry.—Development and training of space perception; properties of lines, planes, and the simpler surfaces of the second order, studied by methods of parallel and central projection; graphical interpretation of the processes of analytic geometry; analytic discussion of the methods of descriptive geometry. *II*; (3). Assistant Professor EMCH

Prerequisite: Mathematics 6.

19. Solid Analytic Geometry.—Equations of the plane and right line in space; properties of surfaces of the second degree; the classification and special properties of quadrics; the theory of surfaces. *II*; (3). Assistant Professor SISAM

Prerequisite: Mathematics 10.

21. Method of Least Squares.—Law of probability and error; adjustment of observations; precision of observation; independent and conditional observations. *I*; (2). Professor STEBBINS

Prerequisite: Mathematics 7 and 9, or 8.

23. Averages and Mathematics of Investment.—Meaning, use, and abuse of different kinds of averages; their relation to the theory of probability; application of the elements of probability to annuities, insurance, and branches of science; loans and investments; problems in the evaluation of investment securities. *II*; (3). Dr. WILSON

Prerequisite: Mathematics 2; junior standing.

30-31. Actuarial Theory.—Mathematical treatment of life contingencies; construction of life tables, and of monetary tables; valuation of policies to meet statutory requirements; mathematical theory of risk; distribution of surplus; preparation of annual reports; inheritance taxes; old age pensions; workmen's compensation; theory and practise of investing the funds of an insurance company. *I, II*; (3). Professor RIETZ

Prerequisite: Mathematics 7 and 9, or 8, 23.

32. History of Mathematics.—The elementary subjects; rise and growth of the higher mathematics chiefly in the nineteenth century; biography of persons influential in this development. Lectures; reports on assigned reading. *II*; (2).

Dr. LYTLE

Prerequisite: Eighteen hours of mathematics.

35. Teachers' Course.—Secondary algebra and geometry; their educational value; position in course; methods of teaching; correlation; comparison of American methods with those of foreign countries; order and importance of topics; textbooks; literature. Lectures; discussions; reports. *I*; (2).

Dr. LYTLE

Prerequisite: Junior standing and after 1916-17 eighteen hours of mathematics.

[40. Fundamental Concepts of Mathematics.—The number concept; concepts of unity; aggregate, order and correspondence; irrationals and limits, transcendence of e and n ; parallel axiom and non-euclidian geometries; ruler and compass constructions; function; logic of mathematics. *II*; (2). Not given in 1916-17.

Dr. LYTLE]

Courses for Graduates

100. Seminar and Thesis.—*Three times a week; I, II; (1 or 2 units).*

Professors in department

101. Functions of Real Variables.—A general introductory course in the functions of real variables, including a critical study of the fundamental processes of analysis and a discussion, based upon the theory of assemblages, of the existence proofs in differential and integral calculus. *Three times a week; I, II; (1 unit).*

Professor TOWNSEND

Prerequisite: Mathematics 16, 17.

[102. Functions of a Complex Variable.—*Three times a week; I, II; (1 unit).*

Not given, 1916-17.

Professor TOWNSEND]

[104. Expansions in Fundamental Functions.—Theory of integral equations; methods of expansion of arbitrary functions in terms of the characteristic functions of a given nucleus. *Three times a week; I, II; (1 unit).* Not given, 1916-17.

Associate Professor SHAW]

[105. Calculus of Variations.—Conditions for a maximum or minimum in simple and isoperimetric problems. *Three times a week; I, II; (1 unit).* Not given, 1916-17.

Assistant Professor CRATHORNE]

[110. Elliptic Functions.—The elements of the theory with applications to geometry and mathematics. Introduction to the theory of the elliptic modular functions. *Three times a week; I, II; (1 unit).* Not given, 1916-17.

Assistant Professor CARMICHAEL]

111. Automorphic Functions.—First semester: The group-theoretic side of the theory. Second semester: Function-theoretic developments and applications. *Three times a week; I, II; (1 unit).*

Assistant Professor EMCH

Prerequisite: Mathematics 102, 110, and preferably 132.

113. Theory of Linear Differential Equations.—Oscillation theorems for ordinary linear equations of the second order in real variables; general existence theorems and function-theoretic considerations of ordinary linear equations of order in complex variables; general theory of linear partial differential equations. *Three times a week; I, II; (1 unit).*

Assistant Professor CARMICHAEL

Prerequisite: Mathematics 102.

120. Elementary Theory of Groups.—Groups in arithmetic, geometry, and trigonometry; groups which can be represented with a small number of letters; the abstract group theory; the Galois theory of equations. *Three times a week; I, II; (1 unit).* Professor MILLER

Prerequisite: Mathematics 33-34.

[121. Theory of Groups.—This course presupposes about one year's work in group-theory. *Three times a week; I, II; (1 unit).* Not given, 1916-17.

Professor MILLER]

122. Modern Algebra.—Theory of matrices; system of linear equations; bilinear and quadratic forms; properties of polynomials; algebraic invariants; elementary divisors. *Three times a week; I, II; (1 unit).* Dr. KEMPNER

Prerequisite: Mathematics 7, 9, 10.

[124. Theory of Numbers.—*Three times a week; I, II; (1 unit).* Not given, 1916-17.

Dr. WAHLIN]

[129. Theory of Statistics.—The general methods of statistical investigation. and the application of the principles developed to problems in economics, sociology, and biology. *Three times a week; I, II; (1 unit).* Not given, 1916-17.

Professor RIETZ]

130. Invariants and Higher Plane Curves.—Algebraic curves; application of the theory of invariants to higher plane curves; curves of the third and fourth order. *Three times a week; I, II; (1 unit).* Assistant Professor SISAM

Prerequisite: Mathematics 16, 17, 132.

[131. Algebraic Surfaces.—The application of homogenous co-ordinates and the theory of invariants to geometry of three dimensions; the general theory of surfaces; the special properties of surfaces of the third and fourth order. *Three times a week; I, II; (1 unit).* Not given, 1916-17.

Assistant Professor SISAM]

132. Projective Geometry.—Fundamental concepts; anharmonic ratio; projective pencils and ranges; transformations and groups; theory of conics and quadric surfaces; pencils and ranges of conics; quadratic transformations and projective theory of cubics; applications in mechanics. *Three times a week; I, II; (1 unit).*

Assistant Professor CRATHORNE

Prerequisite: Graduate standing in mathematics.

135. Differential Geometry.—Applications of the calculus to the general theory of curves and surfaces based primarily in the use of Cartesian co-ordinates. Relation of the theory of surfaces to the theory of invariants of a pair of quadratic differential forms. *Three times a week; I, II; (1 unit).*

Assistant Professor SISAM

141. Vector Methods.—The algebras of quaternions, space analysis, and dyadics; differentiation and integration; rational mechanics, elasticity, hydrodynamics, electrodynamics. *Three times a week; I, II; (1 unit).*

Associate Professor SHAW

Prerequisite: Mathematics 16-17.

[142. General Algebra.—*Three times a week; I, II; (1 unit).* Not given, 1916-17.

Associate Professor SHAW]

Summer Session Courses

S 2. College Algebra.—(Equivalent to course 2.) Rietz and Crathorne's *College Algebra*. (3).

Mr. FRARY

Prerequisite: $2\frac{1}{2}$ units entrance mathematics.

S 4. Plane Trigonometry.—(Equivalent to course 4.) Kenyon and Ingold's *Trigonometry*. (2). Mr. FRARY

Prerequisite: 2½ units entrance mathematics.

S 6. Analytic Geometry.—(Equivalent to course 6.) Ziwet and Hopkin's *Analytic Geometry*. (5). Assistant Professor CRATHORNE

Prerequisite: Mathematics 2 and 4.

S 7. Differential Calculus.—(Equivalent to course 7.) Townsend and Goodenough's *Essentials of Calculus*. (5). Dr. CHITTENDEN

Prerequisite: Mathematics 6.

S 9. Integral Calculus.—(Equivalent to Mathematics 9.) Townsend and Goodenough's *Essentials of Calculus*. (3). Professor TOWNSEND

Prerequisite: Mathematics 7.

***S 102. Advanced Calculus.**—Properties of functions of two or more variables; the application of these properties to problems in geometry and mechanics. (1 unit). Professor TOWNSEND

Prerequisite: Mathematics 7, 9.

***S 105. Calculus of Variations.**—Those elements of the science most needed in the study of the higher subjects of mathematical astronomy and physics. (1 unit). Dr. CRATHORNE

Prerequisite: Mathematics 16.

MECHANICAL ENGINEERING

CHARLES RUSS RICHARDS, M.M.E., *Professor*

GEORGE ALFRED GOODENOUGH, M.E., *Professor, Thermodynamics*

BRUCE WILLET BENEDICT, B.S., *Director, Shop Laboratories*

OSCAR ADOLPH LEUTWILER, M.E., *Professor, Machine Design*

ARTHUR CUTTS WILLARD, B.S., *Assistant Professor, Heating and Ventilation*

ELISHA NOEL FALES, A.B., B.S., *Assistant Professor, Aeronautics*

JOHN ADLUM DENT, M.E., *Associate*

ALONZO PLUMSTED KRATZ, M.S., *Research Associate, Engineering Experiment Station*

ROBERT THOMAS KENNEDY, *Associate, Foundry Practise*

HARRY FREDERICK GODEKE, B.S., M.E., *Instructor*

EDWIN FRANK, B.S., *Instructor*

HARRY WILLIAM WATERFALL, B.S., *Instructor, Machine Design*

HORATIO SPRAGUE McDOWELL, M.M.E., *Instructor*

ARTHUR C HARPER, B.S., *Instructor, Machine Design*

CLAUDE LOWELL HARRELL, B.S., *Instructor, Mechanical Engineering*

EDGAR THOMAS LANHAM, *Instructor, Forge Practise*

GUSTAVE ADOLPH GROSS, *Instructor, Pattern Making*

GUSTAVE HOWARD RADEBAUGH, *Instructor, Machine Practise*

JAMES HARVEY HOGUE, *Instructor, Foundry Practise*

JEREMIAH AMOS DE TURK, *Instructor, Machine Practise*

LEROY ALONZO WILSON, M.M.E., *First Assistant, Engineering Experiment Station*

JAMES MERION DUNCAN, *Assistant, Pattern Making*

PETER JOSEPH REBMAN, *Assistant, Forge Practise*

JOHN ALEXANDER FRISK, *Assistant and Mechanician*

1. Steam and Air Machinery.—The construction, operation, and care of boilers, engines, and air compressors; elementary thermodynamics; steam engine performance; transmission of compressed air and its applications. (For students in civil and mining engineering.) *I*; (3). Mr. DENT, Mr. HARPER

Prerequisite: Junior standing.

2. Steam Engineering.—Engines, boilers, pumps, condensers, and other steam machinery. *II*; (3). Mr. GODEKE, Mr. McDEWELL, Mr. FRANK

Prerequisite: Physics 1a-1b, 3a-3b.

3. Steam Engineering.—The steam engine, steam turbine, and other steam machinery. (For students in mechanical engineering.) *I*; (3).

Mr. GODEKE, Mr. WATERFALL

Prerequisite: Junior standing.

11. Thermodynamics and Heat Engines.—(For students in electrical engineering.) *I*; (3). Professor GOODENOUGH, Mr. DENT

Prerequisite: Mechanical Engineering 1 or 2.

12. Thermodynamics.—The transformation of heat into work; the second law and its connection with irreversible processes; the properties of heat media; the perfect gases; saturated and superheated vapors; the flow of fluids. *II*; (5).

Professor GOODENOUGH

Prerequisite: Mathematics 9a; Theoretical and Applied Mechanics 27.

15. Gas Power Engineering.—Internal combustion engines; liquid and gaseous fuels and their combustion; gas producers. *I*; (3).

Professor RICHARDS, Mr. McDEWELL

Prerequisite: Mechanical Engineering 12.

23. Mechanical Equipment of Buildings.—Designing simple systems for the mechanical equipment of buildings, including heating and ventilation, refrigeration, fire protection, vacuum cleaning, elevators, lighting, and small power plants. Lectures; laboratory. *I*; (5). Assistant Professor WILLARD, Mr. HARRELL

Prerequisite: Senior standing.

25. Heating and Ventilation for Architects.—Direct and indirect steam and hot water heating; furnace heating; ventilation and air analysis; air condition; temperature and humidity control. *I*; (2).

Assistant Professor WILLARD, Mr. HARRELL

Prerequisite: Senior standing.

26. Heating and Ventilation.—Steam boilers and water heaters of steel and cast iron for heating service; heat losses from buildings; direct and indirect steam and hot water heating, using gravity systems; furnace heating; fan blast or mechanical indirect systems; exhaust steam heating; district heating by steam and water; ventilation and air analysis; air conditioning; temperature and humidity control. *II*; (3).

Assistant Professor WILLARD, Mr. HARRELL

Prerequisite: Mechanical Engineering 65.

30. Mechanics of Machinery.—Mechanisms and mechanical movements; cams, gears, valve gears, and quick-return motions; graphical constructions for displacement, velocity, and acceleration; kinetics of the steam engine mechanism and similar mechanisms; balancing; critical speeds; force and mass reduction. *II*; (5).

Mr. DENT, Mr. HARPER

Prerequisite: Theoretical and Applied Mechanics 27.

32. Power Transmission.—Shafting, belts, ropes, cables, water, air, gas, and steam as power transmitters; the measurement and storage of power. *II*; (3).

Professor RICHARDS, Mr. WATERFALL

Prerequisite: Mechanical Engineering 12 and 43.

33. Aeronautic Engineering.—The history and development of aeronautic science, with a critical analysis of the design and construction of air craft. *I*; (3).

Assistant Professor FALES

Prerequisite: Senior standing in the College of Engineering.

37. Principles of Management.—Industrial development; modern industrial tendencies; principles of organization; selection and compensation of labor; application of science to industrial problems; practical shop systems of management; production. *I*; (3).

Director BENEDICT

Prerequisite: Mechanical Engineering 81, 82.

43. Engineering Design.—Machine design; investigation of machines similar to the one to be designed; machinery subjected to heavy and variable stresses; punches, shears, presses, riveters, and cranes. *I*; (5).

Professor LEUTWILER, Mr. WATERFALL, Mr. HARPER

Prerequisite: Theoretical and Applied Mechanics 29; Mechanical Engineering 30.

44. Engineering Design.—Special tools, fixtures, jigs, dies, and gauges used in modern high production manufacturing. *II*; (2).

Professor LEUTWILER, Director BENEDICT, Mr. WATERFALL

Prerequisite: Mechanical Engineering 37 and 43.

52. Power Plant Design.—Steam power plant. *II*; (3).

Professor LEUTWILER, Mr. WATERFALL, Mr. HARPER

Prerequisite: Mechanical Engineering 43 and 65.

61. Power Measurement.—The testing and calibration of instruments and apparatus; use of the indicator; calculation of horse-power and steam consumption; reading of indicator diagrams; valve setting. (For students in electrical engineering.) *I*; (2).

Mr. GODEKE, Mr. McDEWELL, Mr. FRANK, Mr. HARRELL

Prerequisite: Mechanical Engineering 1 or 2.

62. Power Measurement and Steam Engines.—Laboratory work, substantially the same as that given in Mechanical Engineering 61, supplemented by lectures on steam machinery. *II*; (3).

Mr. GODEKE, Mr. McDEWELL, Mr. FRANK, Mr. HARRELL

Prerequisite: Junior standing.

64. Power Measurement.—Apparatus for engine and boiler tests—scales, thermometers, indicators, brakes and dynamometers, gauges, calorimeters; methods of calibrating and using such apparatus; tests for horse-power of steam engines; pumps, and gas engines. Reports. *II*; (3).

Mr. GODEKE, Mr. McDEWELL, Mr. FRANK, Mr. HARRELL

Prerequisite: Mechanical Engineering 2; registration in Mechanical Engineering 12 or Chemistry 31.

65. Power Laboratory.—Experiments on engines, turbines, gas engines, pumps, boilers, injectors, air compressors, hoisting appliances, heating apparatus, and the refrigerating machines. *I*; (3). Assistant Professor WILLARD, Mr. GODEKE, Mr. McDEWELL, Mr. FRANK, Mr. HARRELL

Prerequisite: Mechanical Engineering 12 and 64.

66. Power Laboratory.—Special research work in the mechanical engineering laboratory. *II*; (2).

Prerequisite: Mechanical Engineering 65; senior standing.

71. Forge Work for Agricultural Students.—Forging and welding; tempering tools; pointing and hardening cultivator shovels, plow shares. *Six hours a week, either half of I or II*; (1).

Mr. LANHAM, Mr. REBMAN

73. Wood Work for Agricultural Students.—Carpentry for the farmer; use of tools; layout and construction of building joints; repairs to buildings and equipment. *Six hours a week, either half of I or II*; (1).

Mr. GROSS, Mr. DUNCAN

75. Forge Work.—(9 weeks.) Hand and power forging and welding of metals; heat treatment of carbon and high speed steels in modern gas, electric, and cyanide furnaces; case carbonizing. *I or II*; (1).

Mr. LANHAM, Mr. REBMAN

77. Foundry Work.—(9 weeks.) Modern foundry practise; bench, floor, and machine moulding; all branches of core making; operation of cupola and brass furnace; casting of iron, brass, and alloys. *I or II*; (2).

Mr. KENNEDY, Mr. HOGUE

79. Pattern Work.—(18 weeks.) Hand and machine methods in the production of useful patterns. *I or II*; (3).

Mr. GROSS, Mr. DUNCAN

81. Machine Work.—Modern manufacturing methods; machine operation; shop management; organization; production methods; dispatching work; ordering, storing, and routing materials; time studies; shop accounting; inspection and all activities of the machine department of a manufacturing plant. *I*; (3).

Mr. RADEBAUGH, Mr. DETURK

82. Machine Work.—(Continuation of 81). *II*; (2).

98. Thesis.—Investigation of special subject and preparation of thesis embodying a review of the literature of the subject, the results of investigation, and a discussion of those results. *II*; (3).

99. Inspection Trip.—*I*; (*no credit*).

Prerequisite: Senior standing.

Courses for Graduates

Entrance upon graduate work in mechanical engineering presupposes the full undergraduate course in that subject.

106. Heat Motors.—The internal combustion motor; steam turbine. Principles and methods of refrigeration. *Twice a week; I*; (*1 unit*).

Professor GOODENOUGH

107. Thermodynamics.—Thermodynamics; their application to the solution of physical and engineering problems. *Twice a week; I*; (*1 unit*).

Professor GOODENOUGH

109. Machine Design.—Rational design; the application of mechanics of materials. Individual problems. *Twice a week; I or II*; (*1 unit*).

Professor LEUTWILER

112. Laboratory Investigation.—Combustion of fuel; boiler economy; steam engines and turbines; gas engines and producers; properties of explosive mixtures; mechanical refrigeration. Original work. *Three times a week; I, II*; (*1½ units*).

Professor RICHARDS and others

114. Dynamics of Machinery—Advanced problems. Balancing; whirling and vibration of shafts; theory of governors; fly wheels; force and mass reduction; stresses in rotating masses. *Twice a week; I, II*; (*1 unit*).

Professor GOODENOUGH

MECHANICS, THEORETICAL AND APPLIED

ARTHUR NEWELL TALBOT, C.E., D.Sc., *Professor, Municipal and Sanitary Engineering; in charge of Theoretical and Applied Mechanics*

HERBERT FISHER MOORE, M.M.E., *Professor*

MELVIN LORENIUS ENGER, C.E., *Assistant Professor*

VIRGIL R FLEMING, B.S., *Associate*

FRED B SEELY, M.S., *Associate*

GEORGE PAUL BOOMSLITER, M.S., *Associate*

NEWTON EDWARD ENSIGN, A.B., B.S., *Associate*

WILLIAM JAMES PUTNAM, B.S., *Instructor*

HAROLD MALCOLM WESTERGAARD, Ph.D., *Instructor*

FRANK E RICHART, M.S., *Instructor*

SOLOMON C HOLLISTER, B.S., *Instructor*

1. Analytical Mechanics.—Especially designed for graduates and advanced undergraduates in Arts and Sciences. *I; (3).* Mr. ENSIGN

Prerequisite: Mathematics 8 or 9.

2. Analytical Mechanics.—(A continuation of Theoretical and Applied Mechanics 1.) Lamb's *Dynamics*. *II; (3).* Mr. ENSIGN

Prerequisite: Theoretical and Applied Mechanics 1.

10. Hydraulics.—The pressure and flow of water; its utilization as motive power; observation and measurement of pressure, velocity, and flow; power and efficiency; determination of experimental coefficients. Laboratory weekly. *II; (3).*

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 21.

14. Elements of Mechanics.—Kinematics, kinetics, and statics. (For architects and others who have not taken the calculus.) *II; (4).*

Mr. BOOMSLITER, Mr. HOLLISTER

Prerequisite: Mathematics 2, 4.

15-16. Strength of Materials.—Graphical methods of determining the elastic curve of beams; centroids and moments of inertia of areas; reinforced concrete beams and columns; properties and tests of engineering materials. (For students in architecture and others without the prerequisites required for Theoretical and Applied Mechanics 29.) Laboratory every other week. *I, II; (3).*

Mr. BOOMSLITER

Prerequisite: Theoretical and Applied Mechanics 14.

20. Analytical Mechanics.—The mechanics of engineering rather than that of astronomy and physics. Fundamental concepts; equilibrium, centroids and center of gravity, friction; engineering problems; statement of conditions and use of data. *II; (3).* Mr. ENSIGN

Prerequisite: Mathematics 7; registration in Mathematics 9.

21. Analytical Mechanics.—Continuation of Theoretical and Applied Mechanics 20. Kinematics and kinetics. *I; (2).* Professor ENGER

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 20.

25. Resistance of Materials.—A briefer course than Theoretical and Applied Mechanics 29. (For students in architectural, ceramic, chemical, electrical, and mining engineering.) *I; (4).* Professor ENGER

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 20.

26. Analytical Mechanics and Hydraulics.—Kinematics, kinetics, and hydraulics; problems; experiments in the hydraulic laboratory. (For students in architectural engineering, electrical engineering, and mining engineering.) Laboratory weekly during the last half of the semester. *II*; (4). Mr. SEELY

Prerequisite: Theoretical and Applied Mechanics 25.

29. Resistance of Materials.—The mechanics of materials; the properties and requirements for materials of construction; the effect of methods of manufacture upon the quality of the material; specifications and standard tests; experiments and investigations in the materials laboratory. (For students in civil engineering, mechanical engineering, and municipal and sanitary engineering.) Recitations; lectures; assigned reading. Laboratory weekly. *I*; (5). Professor TALBOT

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 20; registration in Theoretical and Applied Mechanics 21.

36. Analytical Mechanics.—The portion of Theoretical and Applied Mechanics 26, which involves analytical mechanics. (Open only to railway electrical engineering students.) *II*; (2). Mr. PUTNAM

Prerequisite: Theoretical and Applied Mechanics 25.

Courses for Graduates

Entrance upon graduate work in theoretical and applied mechanics presupposes a full undergraduate course in that subject.

101. Analytical Mechanics.—Methods; problems and applications; critical and comparative study of texts. *Twice a week; I; (1 unit)*. Professor MOORE

102. Resistance of Materials.—Properties of materials used in engineering construction and the methods of determining these properties; analysis and investigation in mechanics of materials; the effect of form of member in a structure or machine; the method of application of forces; comparative study of texts. *Twice a week; II; (1 unit)*. Professor MOORE

103. Hydraulics and Hydraulic Engineering.—The laws of hydraulics and their application to engineering problems; hydraulic power and its development; design and investigation. *Twice a week; II; (1 unit)*. Professor TALBOT

104. Experimental Work in the Laboratory of Applied Mechanics.—Investigation on materials and on their action as used in machines and structures; experiments with pumps, motors, and measuring devices; investigation of the laws of hydraulics, the development of power, and the study of various hydraulic problems. *Twice a week; I, II; (½ to 2 units)*. Professor MOORE

105. Experimental and Analytical Work in Reinforced Concrete.—Research; interpretation of available experimental results and their application to the design of structures; principles of construction. *Twice a week; I, II; (½ unit or more)*. Professor TALBOT

Summer Session Courses

S 10. Hydraulics.—(For description see Theoretical and Applied Mechanics 10 above.) (3). Mr. VALLANCE

Prerequisite: Theoretical and Applied Mechanics 21.

S 14. Elements of Mechanics.—(For description see Theoretical and Applied Mechanics 14 above.) (4). Mr. ENSIGN

Prerequisite: Mathematics 2, 4.

S 20. Analytical Mechanics.—The first half of analytical mechanics as given in Maurer's *Technical Mechanics*. (3). Mr. ENSIGN

Prerequisite: Mathematics 7; registration in Mathematics 9.

S 21. Analytical Mechanics.—The second half of analytical mechanics as given in Maurer's *Technical Mechanics*. (2). Mr. SEELY

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 20.

S 25. Resistance of Materials.—The mechanics and properties of materials used in construction; experiments in the testing laboratory; problems. Merriman's *Mechanics of Materials*. (4). Mr. SEELY, Mr. VALLANCE

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 20.

MEDICINE

(See under COLLEGE OF MEDICINE.)

METEOROLOGY

(See under GEOLOGY.)

MILITARY SCIENCE

ROBERT WALTER MEARNs, Major, U. S. Infantry, *Professor and Commandant*
 CLEMENT AUGUSTUS TROTT, Captain, U. S. Infantry, *Assistant Professor*
 WILLIAM JAMES DAVIS, Captain, 22nd U. S. Infantry, *Assistant Professor*
 JOSEPH HOWARD BARNARD, Captain, 17th U. S. Cavalry, *Assistant Professor*
 ROBERT ROSS WELSHIMER, Captain, C. A. C., *Assistant Professor*
 FREDERICK WILLIAM POST, 1st Sergeant, U. S. A., retired, *Administrative Assistant*
 WILLIAM OSCAR NELSON, *Assistant*
 JOHN HOWARD POWERS, *Assistant*
 WILLIAM FRANKLIN CAMPBELL, *Assistant*
 JOHN TAYLOR LEWIS, *Assistant*
 ROBERT HENRY ENGLE, *Assistant*
 JOHN RODGER LINDSEY, *Assistant*
 MANIERRE BARLOW WARE, *Assistant*
 LYLE HENRY GIFT, *Assistant*
 HARRY LEE HUSSON, *Assistant*
 ABRAHAM REUEL KEAGY, *Assistant*

1. Drill Regulations.—Infantry Drill Regulations. For all freshman men. II; (1). Professor MEARNs

2a-2b-2c-2d. Military Drill.—*Infantry:* Infantry drill regulations; small-arm firing regulations; bayonet exercise; ceremonies. *Signal Company:* Flag; telegraph; wireless; heliograph. *Engineer Company:* Field engineering; map reading; entrenchments; bridge building. *Hospital Company:* U. S. Army Hospital Corps Drill Regulations. Freshman and sophomore years. Two drill periods a week. I, II; (1). Professor MEARNs

3a-3b. Advanced Theoretical Instruction.—For sophomore officers: Infantry drill regulations; small-arm firing regulations. For junior and seniors: Field Service Regulations. This course is obligatory for commissioned officers and sergeants, recommended to corporals, and open to others. I, II; (*no credit*). Professor MEARNs

MINERALOGY

(See GEOLOGY 5, 5a, 6, 7.)

MINING ENGINEERING

HARRY HARKNESS STOEK, B.S., E.M., *Professor*

ELMER ALLEN HOLBROOK, B.S., E.M., *Assistant Professor*

CLINTON MASON YOUNG, B.S., E.M., *Assistant Professor, Mining Research*

ALFRED COPELAND CALLEN, E.M., M.S., *Associate*

1. Earth and Rock Excavation.—Explosives; blasting; boring; tunneling; shaft-sinking; coal-cutting; timbering and prospecting. *I*; (3). Mr. CALLEN

Prerequisite: Chemistry 1a or 1b; Geology 13a and 13b.

3. Mining Principles.—Terminology; explosives; blasting; drilling; tunneling; shaft-sinking; mining and timbering of flat deposits. (For students in engineering courses other than mining.) *I*; (2). Mr. CALLEN

Prerequisite: Chemistry 1a or 1b.

4. Mining Methods.—Mining and timbering of bedded, vein, and placer deposits. *II*; (3). Professor STOEK

Prerequisite: Mining 1.

5. Mine Ventilation.—Mine gases; safety lamps; mine ventilation; lighting and signaling; explosions and mine fires; rescue work and first aid. Laboratory work. *I*; (3). Professor STOEK, Mr. CALLEN

Prerequisite: Chemistry 1a or 1b, 4; Physics 1a-1b, 3a-3b; Mining 4.

6. Mechanical Engineering of Mines.—Hoisting: Ropes, cages, hoisting engines, and other appliances. Haulage: the different systems used underground and on the surface; the methods of loading and unloading; mine stables; transportation of workmen. Drainage of mines: mine dams, mine pumps. *II*; (2). Mr. CALLEN

Prerequisite: Mechanical Engineering 1, or equivalent.

8. Mine and Metallurgical Law, Administration, and Accounts.—Laws governing location, ownership, and policing of mines. Trade agreements, relations between employers and employees. Sociology. Accounts and cost sheets. *II*; (3). Professor STOEK, Assistant Professor HOLBROOK

Prerequisite: Mining 3 or 4 or senior standing and 10 hours of geology.

9. Preparation of Coal and Ores.—History, principles, processes, machines; applications to dry coal preparation and coal washing. Breaking, sizing, and concentrating ores. Laboratory practise in coal washing. *I*; (3). Assistant Professor HOLBROOK

Prerequisite: Chemistry 5; Physics 3a-3b.

13. Utilization of Fuels.—The manufacture, handling, and utilization of wood, charcoal, peat, lignite, bituminous coal, anthracite, coke, petroleum, natural and artificial gas, and refractories in mining and metallurgical practise. *II*; (2). Assistant Professor HOLBROOK

Prerequisite: Senior standing.

15. Principles of Mine Ventilation.—Mine ventilation, signaling, and lighting. *I*; (1). Mr. CALLEN

Prerequisite: Physics 3a-3b; Mining 3 or 4.

17. Problems.—Problems, library research, and reports on mining and metallurgical subjects. *I*; (1). Professor STOEK

Prerequisite: Senior standing in mining engineering.

19. Ore and Coal Preparation.—Principles and machines used in breaking, pulverizing, sizing, classifying, and concentrating ores and mineral products. Wet and dry concentration. Practical limits of ore dressing. Principles applied in coal preparation. Laboratory practise in ore concentration. *I*; (3).

Assistant Professor HOLBROOK

Prerequisite: Chemistry 5; Geology 13a and 13b or equivalent.

21. Examination and Valuation.—The methods of examining, valuing, and reporting on mines, mining and metallurgical plants. Estimation and prospecting of mineral deposits. *I*; (2).

Professor STOEK

Prerequisite: Mining 3 or 4, or registration in Mining 3; Geology 13a and 13b, or equivalent.

41. Principles of Coal Plant Design.—Design of mine structures of wood, steel, and masonry, with drafting practise in design of coal tipples and general surface plant. *I*; (3).

Assistant Professor HOLBROOK

Prerequisite: Civil Engineering 58, or equivalent.

42. Coal Plant Design.—General layout; design; estimates for construction and specifications for coal mining plant. *II*; (2).

Assistant Professor HOLBROOK

Prerequisite: Mining 41.

43. Principles of Ore Plant Design.—Design of mine structures of wood, steel, and masonry, with drafting practise in design of rock houses, ore bins, and crushing plants. *I*; (3).

Assistant Professor HOLBROOK

Prerequisite: Civil Engineering 58, or equivalent.

44. Ore Plant Design.—General layout; design; estimates for construction and specifications for ore mining plants. *II*; (2).

Assistant Professor HOLBROOK

Prerequisite: Mining 43.

45. Principles of Mill and Smelter Design.—Flow sheets and structures of wood, steel, and masonry; drafting practise on individual designs. *I*; (3).

Assistant Professor HOLBROOK

Prerequisite: Civil Engineering 58 or equivalent.

46. Mill and Smelter Design.—Flow sheets; design; estimates for construction, and specifications for concentrating plant or smelter. *II*; (2).

Assistant Professor HOLBROOK

Prerequisite: Mining 45.

62. Mine Surveying.—Instruments employed underground and in connecting surface and underground surveys; platting and use of mine maps; mineral land surveying; solar attachments; determination of the meridian. (A surveying trip is made to neighboring mines, of which the estimated cost is \$10.00.) *II*; (3).

Mr. CALLEN

Prerequisite: Civil Engineering 35.

64. Coal Mining Laboratory.—Different coals; their availability for crushing, dry preparation, washing, and briquetting. Complete commercial tests, using small commercial machines wherever possible; design of flow sheets; analysis of products. Estimation of probable costs. *II*; (3).

Assistant Professor HOLBROOK

Prerequisite: Mining 9.

66. Ore Concentration Laboratory.—Complete commercial wet and dry concentration tests on raw ores of lead, zinc, iron, etc. Amalgamation and cyanidation of a gold ore. Sampling, preparation, and analysis or assay of the products recovered. *II*; (3). Assistant Professor HOLBROOK

Prerequisite: Mining 19.

68. Mine Topography.—Stadia; application of topographic and railroad surveying to mining conditions. *II*; (1). Mr. CALLEN

Prerequisite: Civil Engineering 27.

90. Mining and Metallurgical Reports.—Review of mining and metallurgical literature; reports; technical writing. *II*; (1). Professor STOEK

Prerequisite: Mining 1 and 4 or Chemistry 7 and 7a.

98. Thesis.—Individual investigation of a special mining subject; preparation of thesis giving review of the literature, the results of experimental work, and a general discussion of the subject. *II*; (3).

(Hours arranged when thesis is permitted, in accordance with regulations of the College of Engineering.)

99. Inspection Trip.—*I*; (no credit).

Prerequisite: Senior standing.

Courses for Graduates

Entrance upon graduate work in mining engineering presupposes a full undergraduate course in that subject.

100. Seminar—*Once a week; I, II; (1 unit).*

Professor STOEK

101. Advanced Mining Methods.—Coal and ore fields of the United States; methods and economics of mining; utilization, marketing, storage, and transportation of coal and ores. *Twice a week; I, II; (1 unit).*

Professor STOEK

102. Advanced Preparation of Coal and Ores.—Detailed investigation and discussion of settling ratios; laws of crushing; sorting vs. sizing; specific mill and washing problems. *Twice a week; I, II; (1 unit).*

Assistant Professor HOLBROOK

103. The History of Miners' Organizations.—The effect of organizations upon the development of mining practise. *Twice a week; I, II; (1 unit).*

Professor STOEK

104. Mining Reports.—The law of the apex; classification of coal and ore lands; conservation of mineral resources; mine examinations and reports. *Twice a week; I, II; (1 unit).*

Professor STOEK, Assistant Professor HOLBROOK

105. Welfare Work and Education Among Mine Employees.—The organization and operation of mining institutes, night classes, welfare, mine rescue and first-aid work. *Twice a week; I, II; (1 unit).*

Professor STOEK

MODERN LANGUAGES

(See ENGLISH LANGUAGE AND LITERATURE, GERMANIC LANGUAGES AND LITERATURE, and ROMANCE LANGUAGES AND LITERATURE.)

MUNICIPAL AND SANITARY ENGINEERING

ARTHUR NEWELL TALBOT, C.E., D.Sc., *Professor*

MELVIN LORENIUS ENGER, B.S., C.E., *Assistant Professor, Mechanics and Hydraulics*

HAROLD EATON BABBITT, B.S., *Instructor*

2. Water Supply Engineering.—Source of supply; hydraulics of wells; stream flow; impounding and storage reservoirs; conduits and pipe lines; pumps and pumping machinery; stand-pipes and elevated tanks; the distribution system; tests and standards of purity of potable water. Designing weekly. *I; (4).*

Professor ENGER, Mr. BABBITT

Prerequisite: Theoretical and Applied Mechanics 29, 10; Chemistry 1; Mechanical Engineering 1 or 2.

3. Sewerage.—Design and construction of sewerage systems; sanitary necessity of sewerage; separate and combined water carriage systems; surveys, and general plans; hydraulics of sewers; house sewage and its removal; relation of rainfall to storm water flow; determination of size and capacity of sewers; forms and strength of sewer appurtenances; modern methods of sewage disposal; estimates and specifications. Designing weekly. *II; (3).*

Mr. BABBITT

Prerequisite: Theoretical and Applied Mechanics 29, 10; Chemistry 1; Municipal and Sanitary Engineering 2.

6a-6b. Water Purification, Sewage Disposal, and General Sanitation.—Impurities in water supplies and methods and processes of their removal; sewage disposal by filtration, chemical precipitation, irrigation; representative purification plants; garbage collection and disposal; sanitary restrictions and regulations and general sanitation. Lectures; seminar work; drafting. *I; (3); II; (2).*

Professor TALBOT, Mr. BABBITT

Prerequisite: Municipal and Sanitary Engineering 2, 3; Chemistry 1, 3, 10b.

9. Hydraulic Design and Construction.—Reservoirs, dams, conduits, and waterways; hydraulic engineering problems. *II; (2).*

Professor ENGER

Prerequisite: Municipal and Sanitary Engineering 2.

98. Thesis.—Investigation or design of an engineering problem. *II; (2).*

Professor TALBOT, Mr. BABBITT

99. Inspection Trip.—*I; (no credit).*

Prerequisite: Senior standing.

Courses for Graduates

Entrance upon graduate work in municipal and sanitary engineering presupposes a full undergraduate course in that subject.

102. Water Supply Engineering.—Water supply; general water-works construction; pumps and pumping; design of reservoirs and elevated tanks; water-works operation and the valuation of plants. *One to three times a week; I or II; (1 unit).*

Professor TALBOT

103. Sewerage.—Design and construction; systems; hydraulics of sewers; a study of run-off. *Once or twice a week; II; (1 unit).*

Professor TALBOT

106. Water Purification, Sewage Disposal, and General Sanitation.—The design, construction, and operation of water purification plants and of sewage disposal works; the study of existing plants; comparison of results and cost of construction and operation; experimental work on water filters and septic tanks; garbage disposal; general sanitation. *Once a week; II; (½ unit).*

Professor TALBOT

MUSIC

JOHN LAWRENCE ERB, F.A.G.O., *Director, University Organist*

GEORGE FOSS SCHWARTZ, A.M., B.Mus., *Assistant Professor, Theory and History of Music*

HENRI JACOBUS VAN DEN BERG, *Instructor, Piano*

ALBERT AUSTIN HARDING, *Instructor, Wind Instruments, Director of the Band*

EDNA ALMEDA TREAT, B.Mus., *Instructor, Piano*

EDSON WILFRED MORPHY, *Instructor, Violin*

HEBER DIGNAM NASMYTH, *Instructor, Voice*

FRANK TATHAM JOHNSON, *Instructor, Voice*

MABEL GENEVIEVE WRIGHT, A.B., B.Mus., *Instructor, Piano*

OLGA EDITH LEAMAN, *Instructor, Voice*

EDWARD EARLE SWINNEY, A.B., *Instructor, Public School Music*

CORA E WALLACE, *Instructor, Piano, Summer Session*

1-2. **History of Music.**—*I, II; (2).* Assistant Professor SCHWARTZ

Prerequisite: One year of University work.

3-4. **Theory of Music (Harmony).**—*I, II; (2).*

Assistant Professor SCHWARTZ

5-6. **Theory of Music (Harmony).**—Continuation of 3-4. *I, II; (3).*

Assistant Professor SCHWARTZ

Prerequisite: Music 3-4.

7-8. **Counterpoint, Canon, and Fugue.**—*I, II; (3).*

Assistant Professor SCHWARTZ

Prerequisite: Music 5-6.

9-10. **General Theory and Analysis.**—*I, II; (2).*

Director ERB

Prerequisite: Music 7-8.

11-12. **Acoustics.**—*I, II; (1).*

Director ERB

Prerequisite: Music 3 to 8 inclusive.

13-14. **Constructive Listening (Musical Appreciation).**—*I, II; (1).*

Director ERB

Public School Music

21a-21b. **Ear Training, First Year.**—Two hours a week; required of all music students. *I, II; (no credit).* Mr. SWINNEY

22a-22b. **Ear Training, Second Year.**—Two hours a week; required of students in the curriculum in Music in the sophomore year. *I, II; (1).*

Mr. SWINNEY

23a-23b. **Sight Singing, First Year.**—Two hours a week; required of students in the curriculum in Music in the sophomore year. *I, II; (no credit).*

Mr. SWINNEY

24a-24b. **Sight Singing, Second Year.**—Two hours a week; required of students in the curriculum in Music in the junior year. *I, II; (1).*

Mr. SWINNEY

25a-25b. **Methods of Teaching.**—Elements of theory, eye and ear training, the limitations of the child-voice, selection of material, pedagogical presentations, appreciation work for the high school. (Primarily for students preparing to teach music in the public schools.) *I, II; (4).*

Mr. SWINNEY

27a-27b. **Ensemble.**—*I, II; (1).*

28a-28b. **Sight Singing, Elementary.**—Two hours a week for beginners. *I, II; (no credit).*

Mr. SWINNEY

Piano

Mr. VAN DEN BERG, Miss TREAT, Miss WRIGHT

NOTE: A student enrolled in piano is required to take either choral or orchestra; a student absent from choral or orchestra more than three times without an excuse acceptable to the Director of the School of Music receives a failure in his course in piano.

41a-41b. Preparatory Course in Piano, First Year.—*I, II; (no collegiate credit).*

41c-41d. Preparatory Course in Piano, Second Year.—*I, II; (no collegiate credit).*

41e-41f. Preparatory Course in Piano, Third Year.—*I, II; (no collegiate credit).*

42a-42b. Piano, First Year.—*I, II; (4).*

43a-43b. Piano, Second Year.—*I, II; (4).*

44a-44b. Piano, Third Year.—*I, II; (4).*

45a-45b. Piano, Fourth Year.—*I, II; (4).*

46a-46b, 46c-46d. Piano, Two Years.—The first two years' work in piano taken as a minor by students majoring in voice or violin. *I, II; (2).*

47a-47b. Piano.—For students from other departments of the university. *I, II; (no credit,* except in the College of Liberal Arts and Sciences under certain conditions).¹

Voice

Mr. NASMYTH, Mr. JOHNSON, Miss LEAMAN

NOTE: A student enrolled in voice is required to take either choral or orchestra; a student absent from choral or orchestra more than three times, in the course of a semester, without an excuse acceptable to the Director of the School of Music receives a failure in his course in voice.

51a-51b. Preparatory Course in Voice, First Year.—*I, II; (no collegiate credit).*

51c-51d. Preparatory Course in Voice, Second Year.—*I, II; (no collegiate credit).*

51e-51f. Preparatory Course in Voice, Third Year.—*I, II; (no collegiate credit).*

52a-52b. Voice, First Year.—*I, II; (4).*

53a-53b. Voice, Second Year.—*I, II; (4).*

54a-54b. Voice, Third Year.—*I, II; (4).*

55a-55b. Voice, Fourth Year.—*I, II; (4).*

56a-56b, 56c-56d. Voice, Two Years.—The first two years' work in voice taken as a minor by students majoring in piano or violin. *I, II; (2).*

57a-57b. Voice.—For students from other departments of the University. *I, II; (no credit,* except in the College of Liberal Arts and Sciences under certain conditions).¹

¹See page 120.

Violin

Mr. MORPHY, Mr. SCHWARTZ.

NOTE: A student enrolled in violin is required to take either choral or orchestra; a student absent from choral or orchestra more than three times, in the course of a semester, without an excuse acceptable to the Director of the School of Music receives a failure in his course in violin.

61a-61b. Preparatory Course in Violin, First Year.—*I, II; (no collegiate credit).*

61c-61d. Preparatory Course in Violin, Second Year.—*I, II; (no collegiate credit).*

61e-61f. Preparatory Course in Violin, Third Year.—*I, II; (no collegiate credit).*

62a-62b. Violin, First Year.—*I, II; (4).*

63a-63b. Violin, Second Year.—*I, II; (4).*

64a-64b. Violin, Third Year.—*I, II; (4).*

65a-65b. Violin, Fourth Year.—*I, II; (4).*

66a-66b, 66c-66d. Violin, Two Years.—The first two years' work in violin taken as a minor by students majoring in piano or voice. *I, II; (2).*

67a-67b. Violin.—For students from other departments of the University. *I, II; (no credit, except in the College of Liberal Arts and Sciences under certain conditions).*¹

Violoncello

Mr. SCHWARTZ

NOTE: A student enrolled in violoncello is required to take either choral or orchestra; a student absent from choral or orchestra more than three times, in the course of a semester, without an excuse acceptable to the Director of the School of Music receives a failure in his course in violoncello.

71a-71b. Preparatory Course in Violoncello, First Year.—*I, II; (no collegiate credit).*

71c-71d. Preparatory Course in Violoncello, Second Year.—*I, II; (no collegiate credit).*

71e-71f. Preparatory Course in Violoncello, Third Year.—*I, II; (no collegiate credit).*

72a-72b. Violoncello, First Year.—*I, II; (4).*

73a-73b. Violoncello, Second Year.—*I, II; (4).*

74a-74b. Violoncello, Third Year.—*I, II; (4).*

75a-75b. Violoncello, Fourth Year.—*I, II; (4).*

76a-76b, 76c-76d. Violoncello, Two Years.—The first two years' work in violoncello taken as a minor by students majoring in piano, voice, or violin. *I, II; (2).*

77a-77b. Violoncello.—For students from other departments of the University. *I, II; (no credit, except in the College of Liberal Arts and Sciences under certain conditions).*¹

¹See page 120.

Organ

Director ERB, Miss TREAT

NOTE: A student enrolled in organ is required to take either choral or orchestra; a student absent from choral or orchestra more than three times, in the course of a semester, without an excuse acceptable to the Director of the School of Music receives a failure in his course in organ.

Students desiring to take organ will be obliged to pass without conditions the entrance examination in piano. Under no circumstances will they be accepted if their piano work falls below the standard represented by this examination.

81-82. Organ, First Year.—*I, II; (4).*84-85. Organ, Second Year.—*I, II; (4).*86-87. Organ, Third Year.—*I, II; (4).*88-89. Organ, Fourth Year.—*I, II; (4).*

83a-83b, 83c-83d. Organ, Two Years.—First two years' work in organ taken as a minor by students majoring in piano, voice, or violin. *I, II; (2).*

Band, Orchestra, and Ensemble Work

92a-92b. Band Instruments.—*I, II; (no credit).* A student enrolled in this course is required to take either choral or orchestra, and if absent from choral or orchestra more than three times, in the course of a semester, without an excuse acceptable to the Director of the School of Music receives a failure in the course.

HARDING

94a-94b. Recital Course in Practical Music.—(For seniors in Music 45a-45b, 55a-55b, 65a-65b, 88-89.) *I, II; (1).*

96a-96b. Band Instrumentation.—*I, II; (no credit).*

HARDING

97a-97b. Band Arranging.—*I, II; (no credit).*

HARDING

98a-98b. Band Conducting.—*I, II; (no credit).*

HARDING

Summer Session Courses

S 1. Musical History.—Biography, including critical discussions of important compositions, and the investigation of national tendencies in modern music. Colateral reference work and note books are required. (2). Director ERB

S 2. Advanced Harmony.—The Septchords; harmonization with three clefs on four staves; sequences; key relations and simple diatonic modulations; harmonic analysis; keyboard work. (2). Director ERB

S 3. Harmony.—Summary and drill in scales and keys, intervals, triad construction and connection; derivation and figured bass from given melody, harmonization in two clefs. (2). Miss WALLACE

S 4. Sight Singing, Advanced Course.—Drill in one, two, three, and four part reading; suitable exercises for breath control, enunciation and phrasing. (1). Miss WALLACE

S 5. Sight Singing, Elementary Course.—Music notation; scale structure; ear and eye training; solfeggio. (*No credit.*) Miss WALLACE

PALEONTOLOGY

(See GEOLOGY 1a, 16, 18, 19, 20, 21.)

PHILOLOGY

(See CLASSICS, COMPARATIVE PHILOLOGY, ENGLISH LANGUAGE AND LITERATURE, GERMANIC LANGUAGES AND LITERATURE, and ROMANCE LANGUAGES AND LITERATURE.)

PHILOSOPHY

(See also PSYCHOLOGY and EDUCATION.)

ARTHUR HILL DANIELS, Ph.D., *Professor*

BOYD HENRY BODE, Ph.D., *Professor*

QUEEN LOIS SHEPHERD, Ph.D., *Instructor*

CARL HERMAN HAESSLER, A.B., *Assistant*

Major: Twenty hours from any courses offered by the department, including Philosophy 1, 2, 3, and 4, and one other advanced course. Six hours in psychology may be counted toward a major in philosophy.

Minors: Twenty hours in (a) psychology (at least six additional hours, if psychology is counted toward a major), and one other subject in the following list; or (b) any two subjects in the same group in the following list: (A) economics, history, political science, education, sociology; (B) English, French, German, Greek, Latin; (C) botany, chemistry, mathematics, physics, zoology. No course in any subject of the above groups may be counted for the minor requirement if it is excluded from the major requirement of its respective department.

Courses for Undergraduates

1. **Logic.**—The principles of reasoning; detection of fallacies; evidence. *I or II; (3).*

Professor BODE, Dr. SHEPHERD, Mr. HAESSLER

Prerequisite: One year of university work.

2. **Introduction to Philosophy.**—Philosophic problems in their relation to the doctrine of evolution and in their bearing on conduct and religion. *II; (3).*

Professor BODE, Dr. SHEPHERD

Prerequisite: Two years of university work.

9. **Political and Social Ethics.**—Moral principles applied to political and social relations. *I; (3).*

Professor DANIELS, Mr. HAESSLER

Prerequisite: Two years of university work.

Courses for Advanced Undergraduates and Graduates

3. **History of Ancient and Medieval Philosophy.**—*I; (3).*

Professor DANIELS

Prerequisite: Three hours in philosophy; junior standing.

4. **History of Modern Philosophy.**—From the Renaissance to the present time. *II; (3).*

Dr. SHEPHERD

Prerequisite: Three hours in philosophy; junior standing.

7. **Ethics.**—The beginnings and growth of morality; the fundamental questions of ethical theory; social and economic problems of the present. *II; (3).*

Professor DANIELS

Prerequisite: Three hours in philosophy; senior standing.

11. Philosophy of Religion.—The philosophical interpretation of religious consciousness. Topics: God, revelation, inspiration, dogma, prayer, faith, immortality, the problem of evil; the relation of morality and religion. *II*; (2).

Professor DANIELS

Prerequisite: Senior or graduate standing; six hours in psychology or philosophy, or in both.

15. British Philosophers of the Eighteenth Century.—Locke, Berkeley, and Hume. *I*; (3).

Professor BODE

Prerequisite: Philosophy 2 or 3 or 4.

16. Philosophy of Pragmatism.—*II*; (3).

Professor BODE

Prerequisite: Philosophy 15.

18. Philosophers of the Nineteenth Century.—Philosophical tendencies in materialism, naturalism, idealism, and pragmatism. *I*; (3).

Dr. SHEPHERD

Prerequisite: Philosophy 2 or 3 or 4.

19. Rationalism and Religion in the Eighteenth and Nineteenth Centuries.—*I*; (3).

Dr. SHEPHERD

Prerequisite: Philosophy 2 or 3 or 4; junior standing.

Courses for Graduates

Students entering upon graduate work in philosophy must have had a thoro course in the history of philosophy, a course in logic, and a general course in psychology.

103. Seminar in Ethics.—British ethics from Hobbes to Sidgwick. *Twice a week; I, II; (1 unit).*

Professor DANIELS

107a-107b-107c. History of Philosophy.—a: Plato and Aristotle. *Twice a week; (1 unit).* b: Descartes, Spinoza, and Leibnitz. *Twice a week; (1 unit).* c: Kant and Schopenhauer. *Twice a week; (1 unit); I, II.* The subject for 1916-17 is 107a.

Professor DANIELS

108a-108b-108c. Seminar in Contemporary Philosophy.—a: Idealism. b: Realism and pragmatism. c: The philosophy of Bergson. *Twice a week; (1 unit).* *I, II.* The subject for 1916-17 is 108b.

Professor BODE

PHOTOGRAPHY

ARTHUR GRENVILLE ELDREDGE, *Instructor*

1-2. The Principles and Practise of Photography.—(For advanced students who use photography in connection with their special subjects.) Lenses; cameras; plates and films; exposure; development; printing; copying; positives; landscape, architectural, and scientific photography; speed work; color photography. Lectures and demonstrations; each student is required to produce a stated amount of work covering the processes treated. *I, II; (one hour a week, no credit).*

Mr. ELDREDGE

Prerequisite: Junior standing and the consent of the instructor.

PHYSICAL TRAINING FOR MEN

GEORGE A HUFF, *Director*

HARRY LOVERING GILL, *Associate, Track*

RALPH JONES, *Associate, Basket Ball*

ROBERT CARL ZUPPKE, Ph.B., *Associate, Foot Ball*

ROY NEWTON FARGO, B.S., *Director of the Men's Gymnasium*

EDWARD JOHN MANLEY, *Instructor, Swimming*
 WALTER ROOKE EVANS, *Instructor, Wrestling and Boxing*
 SAMUEL E BILIK, *Assistant*
 ALVIN ROMEISER, *Assistant, in Charge of Fencing*
 OLAF HAROLD GLIMSTEDT, *Assistant, Summer Session*
 O C MAUTHE, *Assistant, Summer Session*

1-2. Gymnasium Practise.—Two hours' gymnasium drill each week. (Required of freshmen. First semester given in conjunction with 1a below.) *I*; ($\frac{1}{2}$). *II*; (1). Mr. FARGO

1a. Personal Hygiene.—Six lectures by the Dean of Men. Required in conjunction with Physical Training 1. *I*; (*First six weeks*). Dean CLARK

3. Elementary and Intermediate Gymnastics on Heavy Apparatus.—Preparation of men for teaching physical training. Three exercises a week. *I*; (1).

Prerequisite: Physical Training 1-2 and the consent of the instructor.

4. Advanced Physical Training.—(Continuation of course 3.) Three exercises a week, *II*; (1).

Prerequisite: Physical Training 3 and the consent of the instructor.

Summer Session Courses

ATHLETIC COACHING

NOTE: Summer courses in physical training for men continue through only six weeks. Not more than five credit-hours in physical training may be counted for graduation in any of the colleges of the University.

S 10. Baseball.—Batting; base running; fielding each position; team work and coaching; rules; physical condition; indoor practise. Lectures; practical work. ($1\frac{1}{2}$). Director HUFF

S 11. Track and Field Athletics.—Starting, sprinting, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, hammer throw, and discus; preparing contestants; individual peculiarities; rules; physical condition, endurance, speed, fatigue, and means of training; promotion, management, and officiating of games and meets. Lectures; practical work. ($1\frac{1}{2}$). Mr. GILL

S 12. Basketball.—Coaching; passing; goal throwing; dribbling; team play; condition; styles of play used by leading coaches. Lectures; practical work. ($1\frac{1}{2}$). Mr. JONES

S 13. Football.—*Theoretical:* Rules from the standpoint of coach, players, and officials; offense and defense; generalship and strategy. *Practical:* Training, conditioning, and players' equipment; punting, drop kicking, place kicking, kick off, forward passing; tackling dummy and charging sled; special drills for linemen, ends, and backs; following the ball, interference, team work; fundamental plays, freak plays, signal systems. Lectures; practical work. ($1\frac{1}{2}$). Mr. ZUPPKE

S 14. Training.—Theories of training, massage, treatment of sprains, bruises, etc.; bandaging and first aid. Lectures and practical work. This course should be taken by all who take S 10, S 11, S 12, or S 13. ($\frac{1}{2}$). Mr. GLIMSTEDT

Gymnastics

S 15. Calisthenics.—Typical lessons for corrective and responsive work given. Simple drills with wands, dumb-bells, and bar-bells. ($\frac{1}{3}$). Mr. FARGO

S 16. Elementary Swedish Gymnastics.—Simple floor work and elementary exercises on apparatus. ($\frac{1}{3}$). Mr. FARGO

S 17. Elementary Gymnastics; Heavy Apparatus.—Elementary exercises on heavy apparatus, mats, horse, horizontal bar, rings, and parallel bars. ($\frac{1}{2}$).

Mr. FARGO

S 18. Intermediate Heavy Gymnastics.—More advanced work along the same lines as Course S 17. ($\frac{1}{2}$).

Mr. FARGO

S 19. Advanced Gymnastics; Heavy Apparatus.—Advanced exercises on heavy apparatus. ($\frac{1}{2}$).

Mr. FARGO

S 20. Advanced Gymnastics with Light Apparatus.—Advanced exercises with light apparatus; wands, dumb-bells, single sticks, bar-bells, and Indian clubs. ($\frac{1}{2}$).

Mr. MAUTHE

S 21. Gymnastic Dancing for Men.—Elements of steps, simple steps, and series of dancing steps to be given to classes in single file, pairs, and in open order. ($\frac{1}{2}$).

Mr. MAUTHE

S 22. Advanced Gymnastic Dancing.—($\frac{1}{2}$).

Mr. MAUTHE

S 23. School Room Gymnastics.—Gymnastic games, exercises, and simple folk dances for all grades. ($\frac{1}{8}$).

Mr. MAUTHE

PHYSICAL TRAINING FOR WOMEN

LOUISE FREER, A.B., B.S., *Director*

VERNA BROOKS, A.B., *Instructor*

NELLIE EILEEN BUSSELL, A.B., *Instructor*

ANNA LUE HUGHITT, *Instructor*

CAROLINE RUTH MORRIS, A.B., *Assistant*

ROSA-LEE GAUT, B.Mus., *Assistant*

EUNICE BADGER, *Student Assistant*

7a-7b. Practise.—Class work; light gymnastics; gymnastic dancing; games; personal hygiene; corrective work. (Required of freshmen.) *I, II; (1).*

Miss FREER, Miss BROOKS, Miss HUGHITT, Miss MORRIS, Miss BUSSELL

8a-8b. Practise.—(Continuation of 7a-7b. Second year, elective.) *I, II; (1).*

Miss BROOKS, Miss HUGHITT, Miss MORRIS, Miss BUSSELL

Prerequisite: Physical Training 7a-7b.

9. Hygiene.—(Required of freshmen.) *I; (1).*

Dean GATES

10a-10b. Teachers' Course.—(Third year.) Theory and practise; practise teaching in the gymnasium and in public schools. Lectures and outside reading. *Two hours a week. I, II; (1).*

Miss BUSSELL

Prerequisite: One year of gymnasium work, and psychology, or education; registration in Physical Training 7 or 8.

11a-11b. Teachers' Course.—(Fourth year.) Massage, theory and practise; emergencies (including bandaging); anthropometry, practise work in measurements for physical examinations. *I, II.*

Miss HUGHITT

Prerequisite: Physical Training 10.

12a-12b. Aesthetic and Interpretative Dancing.—Exercises in technics. *I, II.*

Miss BROOKS

Prerequisite: Physical Training 7a-7b.

13a-13b. Advanced Aesthetic and Interpretative Dancing.—Technics; pantomime. *I, II.*

Miss HUGHITT

Prerequisite: 8a-8b, 12a-12b.

Summer Session Courses

S 1. Teaching of Play, Games and Folk Dances in the Grades and High School.—Theory and practise. Lectures.

Miss BROOKS

S 2. Swimming.

Miss BROOKS

PHYSICS

ALBERT PRUDEN CARMAN, D.Sc., *Professor*
 CHARLES TOBIAS KNIPP, Ph.D., *Associate Professor*
 FLOYD ROWE WATSON, Ph.D., *Associate Professor*
 JAKOB KUNZ, Ph.D., *Associate Professor, Mathematical Physics*
 WILLIAM FREDERICK SCHULZ, Ph.D., *Assistant Professor*
 ELMER HOWARD WILLIAMS, Ph.D., *Associate*
 WILLIAM HENRY HYSLOP, A.M., *Assistant*
 EARLE HORACE WARNER, A.M., *Assistant*
 PAUL LEVERN BAYLEY, A.M., *Assistant*
 CHARLES FRANCIS HILL, A.M., *Assistant*
 WALTER ANDREW SHEWHART, A.M., *Assistant*
 CHARLES STEVER FAZEL, A.M., *Assistant*
 HARRY TYLER BOOTH, M.S., *Assistant*
 CARL ELI PIKE, B.S., *Assistant*
 ROY ANDREW NELSON, B.S., *Assistant*
 LAURENCE ELMER VOORHEES, A.B., *Assistant*

Major: Twenty hours from any courses offered by the department.

Minor: Twenty hours in astronomy, mathematics, chemistry, and mineralogy.

Physics 7a-7b and 8a-8b are recommended to students not specializing in mathematics, chemistry, or engineering. For undergraduate students taking advanced work or a major in physics, the following outline of work is suggested:

Freshman year: Trigonometry (Math. 4) and Chemistry.

Sophomore year: Physics 1a-1b, 3a-3b, or Physics 7a-7b, 8a-8b.

Junior year: Physics 15, 16, 17, 23, or 24.

Senior year: Physics 4a-4b, 14a-14b, 20, 22, 25, 30, or 31.

Introductory Courses for Undergraduates

1a-1b. General Physics.—Lectures with class-room demonstration; recitations; written exercises. (For sophomores in engineering, mathematics, physics, and chemistry.) *I*; (3): *II*; (2).

Professor CARMAN, Assistant Professor SCHULZ, Mr. HYSLOP, Mr. WARNER, Mr. BAYLEY, Mr. FAZEL, Mr. BOOTH.

Prerequisite: Registration in Physics 3a-3b; freshman mathematics.

3a-3b. Physical Measurements.—Laboratory experiments; quizzes in connection with Physics 1a-1b. *I*, *II*; (2).

Assistant Professor SCHULZ, Mr. HYSLOP, Mr. WARNER, Mr. BAYLEY, Mr. FAZEL, Mr. BOOTH.

Prerequisite: Physics 1a-1b, or registration therein.

7a-7b. General Physics.—Lectures; class-room demonstrations; recitations. (For students in arts and science.) *I*, *II*; ($2\frac{1}{2}$).

Associate Professor WATSON, Dr. WILLIAMS, Mr. SHEWHART, Mr. PIKE, Mr. NELSON

Prerequisite: Mathematics 4, or registration therein; registration in Physics 8a-8b.

8a-8b. Introductory Laboratory Physics.—Physical measurements. *I*, *II*; ($2\frac{1}{2}$). Dr. WILLIAMS, Mr. SHEWHART, Mr. PIKE

Prerequisite: Registration in Physics 7a-7b.

9a-9b. General Physics.—Lectures; class-room demonstrations; recitations. (For students in architecture.) *I*, *II*; (2).

Associate Professor WATSON, Dr. WILLIAMS, Mr. SHEWHART, Mr. PIKE, Mr. NELSON

Prerequisite: Mathematics 4; registration in Physics 10a-10b.

- 10a-10b. Introductory Laboratory Physics.**—Physical measurements. *I, II;* (2). Dr. WILLIAMS, Mr. SHEWHART, Mr. PIKE
Prerequisite: Registration in Physics 9a-9b.

Intermediate Courses

- 15. Electricity and Magnetism.**—Recommended to students in non-technical courses who wish a knowledge of electricity and magnetism beyond the course in general physics. Two recitations or lectures and one three-hour laboratory exercise weekly. Brooks and Poyser: *Electricity and Magnetism. I;* (3).

Associate Professor KNIPP

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

- 16. Heat.**—Fundamental heat phenomena, the mechanical theory of heat and elementary thermodynamics. Laboratory experiments in thermometry, calorimetry, vapor pressure, expansion of bodies, transmission of heat, and mechanical equivalent. *I;* (3). Associate Professor WATSON, Mr. NELSON

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

- 17. Light.**—Reflection, refraction, interference, diffraction, and polarization; the theory and use of optical instruments; lectures and laboratory. For students in general physics, but also adapted to those who wish to learn the use of the refractometer, telescope, microscope, polarising microscope, polarimeter, saccharimeter, spectrometer and interferometer. Houstoun: *Treatise on Practical Light. II;* (3). Assistant Professor SCHULZ

- [18. Teachers' Course.]**—Discussion of text-books, reference books, laboratory manuals, apparatus ordering, and methods of conducting work in physics. Manipulative work with glass and apparatus. Discussion of selected topics in advanced general physics. *II;* (3). Not given, 1916-17.

Prerequisite: A course in general physics, or experience in teaching.]

- [23. Sound.]**—The phenomena of sound, its origin, propagation, velocity, interference, and diffraction; the vibrations of strings and organ pipes and the physical theory of music and speech. Lectures, recitations, laboratory. *II;* (3). Not given, 1916-17.

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.]

- 24. Properties of Matter.**—Weight, mass, gravitation, elasticity, viscosity, surface tension, and diffusion. Lectures; recitations; laboratory measurements, including the use of the dividing engine, chronograph, etc. Poynting and Thomson: *Properties of Matter;* Watson: *Text-book of Practical Physics. II;* (3).

Dr. WILLIAMS

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

Courses for Undergraduates and Graduates

- 4a-4b. Electrical and Magnetic Measurements.**—Exact electrical and magnetic measurements with accompanying theory. First semester: the more refined and special methods of measuring very high and very low resistances; galvanometers both aperiodic and ballistic; the measurement of electric currents and quantity; the comparison of capacities. A special section is reserved for students of chemistry, including a course of experiments on the measurement of electrolytic resistance, the use of the Dolezalek electrometer, of thermo-couples, and of platinum resistance thermometers for measuring temperatures; the determination of the dielectric constants of solids and liquids; and special uses of the potentiometer. Second semester: the absolute determination of capacity; the determination of the

damping factor of a ballistic galvanometer; circuits containing resistance and self-induction; classical methods for the measurement of self and mutual induction; the magnetic properties of iron; plotting of curves and determination of hysteresis losses. Work with various types of potentiometers. *I, II; (2).*

Associate Professor KNIPP, Mr. HILL, Mr. VOORHEES

Prerequisite: Physics 1a-1b, 3a-3b, or 7a-7b, 8a-8b; Mathematics 7, 9.

14a. Introduction to Theoretical Physics.—Dynamics. First course in theoretical physics, intended to put in systematic form the fundamental facts and concepts of motion, mass, and force, with problems from pure and applied physics. For the student of general science as well as for students of physics and mathematics. Recitations; problems; lectures. Jean: *Theoretical Mechanics. I; (3).*

Professor CARMAN

Prerequisite: Physics 1a-1b, 3a-3b, or 7a-7b, 8a-8b; Mathematics 8 or 7 and 9.

20. Light.—Special phenomena; modern theories; readings in texts of Drude, Wood, and Preston. Lectures; recitations. *I; (2).*

Assistant Professor SCHULZ

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b; Mathematics 8, or 7 and 9.

22. Light-Photometry.—The scientific principles and methods of photometry; comparison of light sources with standards; determination of reflective power and transmission coefficients; spectrophotometry. Lectures; recitations; laboratory. *I; (2-5).¹*

Assistant Professor SCHULZ

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

25. Heat.—Advanced laboratory work in heat; the theory and methods of measurement of temperatures by thermocouples, resistance thermometers, and optical pyrometers. *II; (3).*

Associate Professor WATSON, Mr. NELSON

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b; Physics 16 advised.

26. Architectural Acoustics.—Acoustics of auditoriums; the common acoustical defects and their cures; the transmission of sound through materials; acoustical properties of building materials. Lectures; problems. (For eight weeks only.) *II; (1).*

Associate Professor WATSON

Prerequisite: Physics 1a-1b, 3a-3b; or 9a-9b, 10a-10b.

30. Introduction to Theoretical Electricity.—Electrical and magnetic phenomena discussed with calculus methods. Magnetism, electrostatics, electrolysis, thermo-electricity, electromagnetics, varying currents, alternating currents, units, electromagnetic radiation, conduction through gases, radio-activity and electrons. (For advanced students in physics, chemistry, mathematics, and engineering.) Lectures; recitations; demonstrations. Starling: *Electricity and Magnetism. II; (3).*

Associate Professor KNIPP

31a-31b. Special Problems in Advanced Physical Measurements.—*I, II; (2 or 3).¹* Professor CARMAN, Associate Professors KNIPP and WATSON, Assistant Professor SCHULZ, Dr. WILLIAMS.

Courses for Graduates

The prerequisite for graduate work in physics is a college course in general physics with a year's laboratory course in introductory physical measurements. The student who is to do major work in physics should also have had additional courses in physics or teaching experience, unless the training in his minor subjects,

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

mathematics or chemistry, has been strong and complete. He should also have a knowledge of French and German sufficient to use references in these languages. The courses named below are those open for candidates for the Master's or Doctor's degree. A large part of the last year's work of the candidate for the Doctor's degree is investigational in either experimental or theoretical physics. In addition to these major graduate courses, the courses in elementary dynamics, heat, light, electrical measurements, and introductory electrical theory, are arranged with certain additions for graduate credit. The "intermediate" courses on heat, light, and electricity and magnetism (Physics 15, 16, 17, 24), may be offered by students making a minor in physics, and with certain limitations by students in their first year of graduate work for major credit.

[121. Recent Advances in Physics and the Electron Theory.—A series of lectures of a non-mathematical character describing the more recent discoveries in physics. The molecular and atomic structure of matter; the universal occurrence of electrons; determination of the e/m and v of the electron and of the ion; determination of the elementary charge of the electron by means of the fog method, by Brownian movement, by radio-activity. *Three times a week; II; ($\frac{1}{2}$ unit).* Not given, 1916-17. Associate Professor KNIPP, Associate Professor KUNZ]

123. Sound.—Wave motion; forced vibrations; the velocity and energy relations of sound waves; resonance; vibrations of strings and organ pipes. *Three times a week; II; (1 unit).* Associate Professor WATSON

124. Conduction of Electricity Through Gases.—The classical experiments relating to discharge phenomena. In the second semester an original problem is assigned. Laboratory, collateral reading; discussion. *Three times a week; I, II; (1 to 2 units).* Associate Professor KNIPP

126. Physics Colloquium.—Weekly meetings of the instructors and advanced students of the department for the presentation and discussion of papers on current problems in physics. Attendance is expected of all graduate students. *Once a week; I, II; (no credit).*

127a. Electron Theory.—(Mathematical part, Seminar.) Theory of radiation of the black body; entropy and probability; the energy quantum and its applications in the theory of the specific heat; the photoelectric and related effects. Topics are selected in advance. *Once in two weeks; I; (1 unit).* Associate Professor KUNZ

127b. Electron Theory.—(Physical part, Seminar.) The method of physical intuition is used, avoiding deeper mathematical analysis. The Zeeman and corresponding electric phenomena; electro and magneto-optics; emission and absorption spectra; dispersion; photoelectricity; phosphorescence; chemical action of light and electrons; electron theory of metals and of magnetism; constitution of the atom. Of special interest to students in chemistry and general science. *Twice a week; II; (1 unit).* Associate Professor KUNZ, Assistant Professor SCHULZ

131. Investigation of Special Problems.—Advanced laboratory or design and calculation. A problem worked out with the advice and direction of the instructor. *Two or four times a week; I, II; (1 to 2 units).* Professor CARMAN, Associate Professors KNIPP, WATSON, KUNZ, Assistant Professor SCHULZ, Dr. WILLIAMS

132. Mathematical Physics.—Special phases in theoretical physics.

[(a). Dynamics. Newton's equations, general methods of integration, potential-theory, potential of the ellipsoid, application to celestial mechanics, the principles of least constraint, of virtual work of D'Alembert, of Hamilton; special problems of hydrodynamics and of electricity. *Three times a week; I, II; (2 units).* Not given, 1916-17. Associate Professor KUNZ]

(b). **Electrodynamics.**—The potential theory applied to electrical and magnetic polarization; spherical harmonics; images and inversion; conjugate functions; elliptic coordinates and integrals; magnetic actions of currents; determination of coefficients of capacity; self and mutual induction; absolute measurements; Maxwell's theory with some applications in optics. Lectures; collateral reading. *Four times a week; I, II; (2 units).* Associate Professor KUNZ

[(c). **Thermodynamics and Kinetic Theory of Matter.**—The two fundamental principles developed and applied to various physical and chemical phenomena, the theory of chemical equilibrium; the Nernst theorem; the direct method of Carnot's cycle together with the method of the thermodynamic potentials and the derived functions; Maxwell's theory of the distribution of velocities in a gas; Boltzman's H theory; the theory of radiation; Planck's theory of quanta. *I, II; (1 to 2 units).* Not given, 1916-17. Associate Professor KUNZ]

(d). **Elasticity and Hydrodynamics.**—Problems of elasticity and hydrodynamics of technical interest. Advanced mathematics, but not advanced dynamics, is required. The current literature of physical and technical journals is used. *Twice a week; I; (1 unit).* Associate Professor KUNZ

133. Seminar.—*Three or five times a week; I, II; (1 to 3 units).*

Professor CARMAN, Associate Professors KNIPP, WATSON, KUNZ, Assistant Professor SCHULZ, and Dr. WILLIAMS

Summer Session Courses

S 7I. General Physics, Part I.—Mechanics; motion; forces and their effects; equilibrium. Kimball's *College Physics*. ($1\frac{1}{2}$).

Assistant Professor KNIPP, Mr. BAYLEY

Prerequisite: Plane geometry and high-school algebra; registration in Physics S 8I. Plane trigonometry desired.

S 8I. Introductory Laboratory Physics, Part I.—Physical measurements on mechanics, properties of matter. Laboratory to accompany S 7I. Schulz's *Laboratory Manual*. ($1\frac{1}{2}$). Mr. BAYLEY

Prerequisite: Registration in Physics S 7I.

[**S 7II. General Physics, Part II.**—Electricity and magnetism. Kimball's *College Physics*. ($1\frac{1}{2}$). Not given, 1916.

Prerequisite: See S 7I.]

[**S 8II. Introductory Laboratory Physics, Part II.**—Laboratory to accompany S 7II. ($1\frac{1}{2}$.) Not given, 1916.

Prerequisite: Registration in S 7II.]

S 7III. General Physics, Part III.—Heat, light; sound. Lectures; demonstrations; recitations. Text: Kimball's *College Physics*. ($1\frac{1}{2}$).

Associate Professor KNIPP, Mr. BOOTH

Prerequisite: Same as S 7I.

S 8III. Introductory Laboratory Physics, Part III.—Heat, light; sound. Laboratory. Schulz's *Laboratory Manual*. ($1\frac{1}{2}$). Mr. WARREN, Mr. BOOTH

Prerequisite: Registration in Physics S 7III.

S 4. Electrical and Magnetic Measurements.—Laboratory; recitations; reports. (2). Dr. WILLIAMS, Mr. FAZEL

Prerequisite: A course in general physics and calculus.

S 15. Electricity and Magnetism.—Lectures, recitations; laboratory. Brooks and Poyser, *Magnetism and Electricity*. ($1\frac{1}{2}$). Dr. WILLIAMS, Mr. FAZEL

Prerequisite: A course in general physics.

S 16. Heat.—Thermometry, calorimetry, expansion, and vapor pressure. Lectures; demonstrations; recitations; laboratory. Edser's *Heat for Advanced Students*. (1½). Mr. WARNER, Mr. BOOTH

Prerequisite: A course in general physics.

[**S 17. Light.**—For description see Physics 17 above. (1½.) Not given, 1916.

Prerequisite: A course in general physics.]

S 18. Teachers' Course.—For description see Physics 18 above. (1).

Dr. WILLIAMS

Prerequisite: A course in general physics, or teaching experience in physics.

S 24. Properties of Matter.—The fundamental properties of matter, weight, mass, gravitation, elasticity, viscosity, surface tension, and diffusion. Poynting and Thomson's *Properties of Matter*. (1½). Dr. WILLIAMS

Prerequisite: A course in general physics.

S 21. Recent Advances in Physical Science.—See S 126.

***S 31. Special Problems in Advanced Physical Measurements.**—Special laboratory problems. (1-2).¹ Associate Professor KNIPP, Dr. WILLIAMS

Prerequisite: A course in general physics; calculus.

***S 126. Physics Colloquium.**—Lectures on liquid air, x-rays, and cathode rays.

Associate Professor KNIPP, Dr. WILLIAMS

***S 131. Investigation of Special Problems.**—

Associate Professor KNIPP, Dr. WILLIAMS

Prerequisite: Registration in the Graduate School.

***S 133. Seminar and Thesis.**—

Associate Professor KNIPP, Dr. WILLIAMS

Prerequisite: Registration in the Graduate School.

PHYSIOLOGY

WILLIAM EDWARD BURGE, Ph.D., *Assistant Professor*

ALMA JESSIE NEILL, A.M., *Assistant*

JOSEPHINE KENNEDY, A.B., *Assistant*

Major: 20 hours made up from any courses offered in the department, exclusive of Physiology 4.

Minors: 20 hours in bacteriology, botany, chemistry, and zoology.

1. Histology.—A microscopic study of the fundamental mammalian tissues. Continued in Physiology 8. I; (3). Assistant Professor BURGE, Miss KENNEDY

Prerequisite: Two years of university work, including five hours in botany or zoology.

2. Experimental Physiology.—Nerve and muscle, circulation, respiration, secretion, digestion, and metabolism. Lectures; laboratory. II; (5).

Assistant Professor BURGE, Miss NEILL

Prerequisite: Two years of university work; Physiology 4 and 8.

4. General Physiology, Chemical and Experimental.—Lectures; demonstrations; recitations; laboratory work. I or II; (5).

Assistant Professor BURGE, Miss NEILL, Miss KENNEDY

Prerequisite: One semester of university work, including five hours in botany or zoology and five hours in chemistry.

¹In registering for a course with variable credit hours, a student must put down no his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

5. Physiology of Nutrition.—Utilization of food material by the body in health under various conditions and in disease. Lectures; demonstrations. *II*; (2).

Assistant Professor BURGE

Prerequisite: Physiology 4.

6. Physiology of the Nervous System.—The functions of the principal motor and sensory tracts of the mammal. *I*; (3).

Assistant Professor BURGE

Prerequisite: Physiology 1.

7. Investigation.—*II*; (2).

Assistant Professor BURGE

8. Histology.—Microscopic anatomy of the organs. Lectures; laboratory. *II*; (3).

Assistant Professor BURGE, Miss KENNEDY

Prerequisite: Two years of university work, including Physiology 1.

Courses for Graduates

101. Journal Club.—Review of literature, and discussion of investigations carried on in the department. *Once a week; I, II.*

Members of the department

103. Research.—*Three times a week; I, II; (1 to 2 units).*

Assistant Professor BURGE

POLITICAL SCIENCE

(See also ECONOMICS, HISTORY, and SOCIOLOGY.)

JAMES WILFORD GARNER, Ph.D., *Professor*

JOHN ARCHIBALD FAIRLIE, Ph.D., *Professor*

JOHN MABRY MATHEWS, Ph.D., *Assistant Professor*

RUSSELL McCULLOCH STORY, A.M., *Instructor*

ROBERT EUGENE CUSHMAN, A.B., *Instructor*

FRANK MALLORY ANDERSON, Ph.D., *Professor of History, Dartmouth College, Summer Session*

JOHN MEZ, Ph.D., *Lecturer for the American Association for International Relations, Summer Session*

Major: Twenty hours from any courses offered by the department. A major may include three hours of constitutional history (History 4 and 14).

Minors: Twenty hours, selected from two of the following subjects: history, economics, law, sociology, philosophy, and education.

Courses for Undergraduates

NOTE: Courses 1 and 3 give a survey of national, state, and local government in the United States, and should be taken by students specializing in political science. Course 1a is open only to students in the Colleges of Engineering and Agriculture who desire an introductory course in American Government.

1. American National Government.—Historical development, organization, powers, limitations, and practical working of the national government of the United States. *I*; (3).

Professor GARNER, Assistant Professor MATHEWS, Mr. STORY, Mr. CUSHMAN

Prerequisite: Thirty hours of university work.

3. State and Local Government.—Powers, obligations, and rights of the states in the Federal Union; formation and admission of states; development of state constitutions; organization of state and local government; political methods. (A continuation of course 1; may be taken independently.) *II*; (3).

Professor GARNER, Assistant Professor MATHEWS, Mr. STORY, Mr. CUSHMAN

Prerequisite: Thirty hours of university work.

NOTE: Students may not take both 3 and 16 for more than a total of four hours' credit without special permission of the department.

1a. American Government and Politics.—National, state, and local government. (Open only to students in the Colleges of Engineering and Agriculture.) I; (2). Mr. CUSHMAN

Prerequisite: Thirty hours of university work. No credit is allowed for this course if the student has already had or subsequently takes course 1 or 3.

16. Government of Illinois.—Constitutional development; the legislature; the executive departments; the administrative boards and commissions; the judiciary; county, town, and city government. Lectures; discussion. II; (2).

Mr. STORY

Prerequisite: Thirty hours of university work.

NOTE: Students may not take both 3 and 16 for more than a total of four hours' credit without special permission of the department.

Courses for Advanced Undergraduates and Graduates

NOTE: Junior standing is required for admission to the following courses:

4. Municipal Government.—The growth of cities; their legal and social status; municipal organization in the United States, including mayor and council, commission, and city manager plans; municipal organization abroad; municipal functions. I; (3). Mr. STORY

Prerequisite: Senior standing, or junior standing and one of the following: (1) Three hours in either political science or sociology; (2) Five hours in either economics or history; (3) Major work in civil or in municipal and sanitary engineering.

5. Constitutional Law of the United States.—The judicial interpretation of the constitution. Judicial power to declare laws unconstitutional; separation of governmental powers; relation of state and national governments; national taxation; control of interstate commerce; protection of civil and political rights (due process of law); jurisdiction of the courts. I; (3). Mr. CUSHMAN

Prerequisite: Political Science 1.

6. International Law.—The development, nature, source, and present status of the law of nations; the doctrine of intervention; the laws of war and peace; the rights and duties of neutrals; the arbitration movement. Lectures; assigned readings; reports. I; (3). Professor GARNER

Prerequisite: Graduate or senior standing, or junior standing with six hours of history and five hours of political science.

7. American Diplomacy.—The genesis and present organization of the Department of State; the diplomatic service; the treaty making power; the methods and traditional principles of the foreign policy of the United States; diplomatic controversies with foreign powers; the United States as a world power. II; (3).

Assistant Professor MATHEWS

Prerequisite: Political Science 1 or History 3a-3b; junior standing.

9. Principles of Jurisprudence.—The nature and sources of law; development and comparison of the Roman and English legal systems; English law in the United States; classification of law. II; (2). Professor FAIRLIE

Prerequisite: Political Science 1 or its equivalent.

10. Administrative Law in the United States.—Organization of federal and state administrative systems; separation of powers and delegation of legislative power; powers of administrative officers; administrative procedure; remedies of the individual against unlawful action of public officers. *II*; (3). Mr. CUSHMAN

Prerequisite: Political Science 5, or senior standing and six hours of political science.

11. Constitutional Aspects of Social and Industrial Problems.—The nature of the police power; legislation concerning public health, order, and safety; constitutionality of labor legislation; control of combinations of capital; regulation of public service companies. *II*; (3). Mr. CUSHMAN

Prerequisite: Six hours of political science or economics.

12. National Administration.—Administrative powers of the President and Congress; principles of administrative organization; the President's cabinet, the executive departments, boards and commissions and administrative services of the national government; judicial administration and the relation of the courts to the executive authorities. *II*; (3). Professor FAIRLIE

Prerequisite: Political Science 1; junior standing.

13. State Administration in the United States.—Organization and methods of the executive departments of the state governments: the governor, heads of administrative departments, boards and commissions, and the civil service. Tendencies toward centralization in taxation, education, and the enforcement of state law. *I*; (3). Assistant Professor MATHEWS

Prerequisite: Political Science 3 or its equivalent.

14. Political Parties and Methods.—Development and organization of political parties and political methods, primarily in the United States; recent legislation on primary elections and corrupt practises; criticism and defense of the party system. *I*; (2). Professor FAIRLIE

Prerequisite: One course in political science.

14a. Primary and Election Problems.—(Supplemental to course 14.) Special reports and discussions. *I*; (1). Professor FAIRLIE

Prerequisite: Registration in Political Science 14.

18. Legislation in the United States.—Nature of the legislative power; constitutional limitations; organization, rules of procedure, and practise of American legislative bodies; bill drafting; reference bureaus; criticism of bills and discussion of principles of legislation. *II*; (3). Mr. STORY

Prerequisite: Six hours of political science; junior standing.

21. British Government.—Political institutions in the United Kingdom and the British dominions; the Crown, the Cabinet, the House of Commons and the House of Lords; the party system; the courts of law; local government; the crown colonies and the self-governing dominions; recent developments and proposed changes. *I*; (3). Professor FAIRLIE

Prerequisite: Graduate or senior standing, or junior standing with six hours of political science.

22. Continental European Governments.—The political systems of France, Germany, Austria-Hungary, Italy, and Switzerland; constitutional beginnings; political organizations; methods of legislation and administration; constitutional guaranties for the protection of individual rights. *II*; (3). Professor GARNER

Prerequisite: Open to graduate students and seniors who have had six hours in political science. History 20a-20b and Political Science 21 recommended.

28. Problems of Contemporary Politics.—Reorganization of state government; state socialism; immigration; foreign and colonial policies; parliamentary government; direct popular government. *I; (2).* Mr. STORY

Prerequisite: Senior standing and one course in political science.

34. Municipal Problems.—Municipal administration in the United States and Europe; principles of administrative organization; city planning and housing; public utilities; police and sanitary administration; municipal finances: Lectures; readings; special reports. *II; (3).* Professor FAIRLIE

Prerequisite: Open to graduate students, and to undergraduate students who have had Political Science 4 or who have senior standing in the curriculum in municipal or highway engineering.

36a-36b. Thesis Course.—Research work for candidates for honors and other seniors. *I, II; (2).*

Courses for Graduates

[101. History of Political Theories.—Ancient, medieval, and modern political thought; political theories of Aristotle, Plato, Machiavelli, Hobbes, Locke, Montesquieu, and others. American political philosophy. Alternating with course 102. *Twice a week; I; (1 unit).* Not given, 1916-17; given in 1917-18. Professor GARNER]

102. The Nature of the State.—Principles, methods, and nature of political science, the origin, attributes, forms, and functions of the state; sovereignty and liberty; citizenship and nationality; constitutions, their nature and forms; principles of legislative, executive and judicial organization. *Twice a week; I; (1 unit).*

Professor GARNER

103. Seminar in Political Science and Public Law.—Special problems; reports; discussions and criticism. The research work of candidates who are writing theses is under the direction of some instructor to whom they report frequently. *I, II.*

106. International Law as Applied During the European War.—Causes of the war; treatment of alien enemies; contraband; blockades; transfers of flag; reprisals; fines; contributions and requisitions; rights and duties of neutrals. *Twice a week; II; (1 unit).*

Professor GARNER

112. Studies in Public Administration.—Special topics in comparative national or local administration. *Twice a week; I; (1 unit).*

Professor FAIRLIE

113. Topics in State Government and Administration.—Studies in the organization and methods of state governments in formulating and executing public policies; investigation of problems. Different topics in succeeding years. *Twice a week; II; (1 unit).*

Assistant Professor MATHEWS

Summer Session Courses

S 1. American Government.—For description see Political Science 1. *(2½).*

Assistant Professor MATHEWS

Prerequisite: Thirty hours of university work.

S 2. American Diplomacy.—For description see Political Science 7. *(2½).*

Assistant Professor MATHEWS

S 3. The Governments of Europe.—For description see Political Science 21 and 22. *(2½).*

Professor ANDERSON

PORTUGUESE

(See under ROMANCE LANGUAGES.)

PSYCHOLOGY

MADISON BENTLEY, Ph.D., *Professor*

CHRISTIAN ALBAN RUCKMICH, Ph.D., *Associate*

CARL RAHN, Ph.D., *Instructor*

ANNA SOPHIE ROGERS, A.M., *Assistant*

GEROLD CARL WICHMANN, A.B., *Assistant*

COLEMAN R. GRIFFITH, A.B., *Assistant*

Major: Twenty hours chosen from courses announced by the department, except that six hours may be chosen from one or more of the following subjects: Philosophy 1, 2, 3, 4; Physics 1a-1b, 3a-3b, 7a-7b; Zoology 2, 5, 9, 15; and Animal Husbandry 30.

Minors: Twenty hours chosen from education, genetics, philosophy, physics, physiology, sociology, and zoology.

Laboratories

The departmental laboratories occupy twenty rooms in University Hall. They make provision for research, undergraduate instruction in drill-courses, demonstrations in the lecture-room, the testing of mental capacity and of mental defect, and the study of the animal mind. Besides standard equipment in all branches, the laboratories contain special apparatus for spectroscopic and chronographic methods and for the investigation of memory and association. Provision is made for research in psychological optics and acoustics. The work-shop, which is in charge of a skilled mechanic, is equipped for the construction of delicate apparatus and of instruments of precision. The departmental library contains complete files of foreign and American journals and a working collection for experimental and historical study.

Summer Session courses in psychology will be found under EDUCATION.

1. Introduction to Psychology.—The facts and laws of mind. Lectures; sectional meetings. *I*; (3).

Professor BENTLEY, Dr. RUCKMICH, Dr. RAHN, and assistants

Prerequisite: One year of university work.

2. General Psychology.—Mental inheritance, habit, custom, and fashion; psychology and the biological and social sciences; comparative and genetic psychology; the abnormal; applications of psychology to the arts and professions. *II*; (3).

Dr. RUCKMICH, Dr. RAHN, and assistants

Prerequisite: Psychology 1.

3. Laboratory Practise (Elementary).—Classical experiments in the fields of sensation, feeling, attention, perception and action. *I* or *II*; (2).

Professor BENTLEY, Dr. RUCKMICH and assistants

Prerequisite: Psychology 1.

5. Comparative Psychology.—Mind in animal forms; psychological implications of organic evolution; a comparison of human and animal minds; criticism of current literature. (Recommended to students who intend to elect advanced courses either in animal psychology or in the study of behavior.) Lectures; laboratory. *I*; (2).

Professor BENTLEY, Dr. RAHN

Prerequisite: Psychology 1.

6. Comparative Psychology (Advanced Laboratory).—Individual studies in animal psychology. *II*; (2-4).¹

Professor BENTLEY, Dr. RAHN

Prerequisite: Psychology 1 and 5.

¹In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

9. Physiological Psychology.—Correlations between the structure and functions of the nervous system and the phenomena of human consciousness; a formulation of the problem of psychophysical relationship. Lectures; readings; discussions. *II*; (3). Dr. RAHN

Prerequisite: Psychology 1 and 2, or 1 and 3, and laboratory training in one of the biological sciences.

10. German Reading.—Translation into English of a German psychological text. *I*; (1). Professor BENTLEY

Prerequisite: Psychology 1 and an elementary knowledge of German.

12-13. Minor Problems (Advanced Laboratory).—The formulation and application of methods suitable to new problems. *I, II*; (2-5).¹

Professor BENTLEY, Dr. RUCKMICH, Dr. RAHN

Prerequisite: Psychology 1, 2, 3.

14. Social Psychology.—The social consciousness and the collective mind; analysis of the conditions upon which social consciousness depends; perceptual, ideational, and emotional factors in social consciousness; genetic development of the collective mind as revealed in tradition and institutions. *I*; (2). Dr. RAHN

Prerequisite: Psychology 1 and one other course.

15. The Psychological Basis of Music.—(An elementary course.) Summary of experimental and theoretical literature on the origin of music, harmony, melody, rhythm, consonance, tonal quality, psychology of appreciation and performance. *I*; (2). Dr. RUCKMICH

17. The History of Psychology.—Lectures, discussions and readings in the sources. *II*; (2). Dr. RUCKMICH

Prerequisite: Psychology 1, 2, and one other course.

20. Systematic Psychology.—The nature of psychology analysis; classification of elementary processes; description of sensory and imaginal processes and the simpler complexes based upon historical and current researches. Lectures and essays. (For graduates and advanced undergraduates.) *II*; (3).

Professor BENTLEY

Prerequisite: The consent of the instructor.

21-22. Special Studies.—Individual investigations, for advanced students, in the form of essay or experiment. *I, II*; (3).

Dr. BENTLEY, Dr. RUCKMICH, Dr. RAHN

Prerequisite: Psychology 1, and one other course.

Courses for Graduates

103. Research.—Experimental and historical investigations. *I, II*; ($\frac{1}{2}$ to 2 units). Professor BENTLEY, Dr. RUCKMICH, Dr. RAHN

105. Seminar.—Discussion of current topics in their historical setting. *I, II*; ($\frac{1}{2}$ unit). Professor BENTLEY

PUBLIC SPEAKING

(See under ENGLISH LANGUAGE AND LITERATURE.)

RAILWAY ADMINISTRATION

(See TRANSPORTATION.)

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

RAILWAY ENGINEERING

EDWARD CHARLES SCHMIDT, M.E., *Professor*

WILLIAM FREEMAN MYRICK GOSS, M.S., D.Eng., *Professor*

JOHN McBEATH SNODGRASS, B.S., *Assistant Professor, Railway Mechanical Engineering*

ALONZO MORRIS BUCK, M.E., *Assistant Professor, Railway Electrical Engineering*

ARTHUR FRANCES COMSTOCK, C.E., *Associate, Railway Civil Engineering*

OTTO STERNOFF BEYER, Jr., M.E., *Research Assistant, Engineering Experiment Station*

HAROLD HOUGHTON DUNN, M.S., *Research Assistant, Engineering Experiment Station*

Railway Civil Engineering—Courses 31-51.

Railway Electrical Engineering—Courses 60-68.

Railway Mechanical Engineering—Courses 2-9.

Common to all groups—Courses 25, 98 and 99.

2. **Locomotive Design.**—Calculations and designs of engine and boiler details; current standards and proportions. *I*; (3). Assistant Professor SNODGRASS

Prerequisite: Mechanical Engineering 12, 62; Railway Engineering 6.

5. **Railway Laboratory.**—Locomotive testing; experimental work with electric and steam railway test cars, brakeshoe testing machine, drop testing machine, and air-brake apparatus. *I*; (3). Mr. BEYER

Prerequisite: Mechanical Engineering 12, 62; Railway Engineering 6.

6. **Locomotives.**—Mechanics; performance; design. *II*; (4).

Professor SCHMIDT

Prerequisite: Theoretical and Applied Mechanics 21, 29; registration in Mechanical Engineering 12 and 62.

7. **Advanced Design.**—Problems in locomotive and car design. *II*; (3).

Assistant Professor SNODGRASS

Prerequisite: Railway Engineering 2.

8. **Railway Laboratory.**—Investigation of train resistance and locomotive tractive effort by the use of the railway test car. Analysis of the results and their application to the problems of tonnage rating. *II*; (2). Mr. BEYER

Prerequisite: Railway Engineering 5.

9. **Seminar.**—Discussion of assigned topics and reports. *I*; (1).

Professor SCHMIDT

25. **Railway Development.**—History and organization of steam and electric railways; statistics; costs. *I*; (3).

Professor SCHMIDT, Assistant Professor SNODGRASS, Assistant Professor BUCK, Mr. COMSTOCK

Prerequisite: Open to juniors in railway courses only.

31. **Railway Yards and Terminals.**—Theory of design; arrangement of grades in gravity yards; problems in yard design. *II*; (3). Mr. COMSTOCK

Prerequisite: Civil Engineering 51.

32. **Railway Construction.**—Design of railway structures; estimates of cost, working drawings, and contracts and specifications for assigned problems. *I*; (3).

Mr. COMSTOCK

Prerequisite: Civil Engineering 51.

33. **Economic Theory of Railway Location.**—Influence of volume of traffic, alignment, and gradient on operating expenses; locomotive and grade problems; relocation of existing lines. *II*; (4). Mr. COMSTOCK

Prerequisite: Civil Engineering 51; Theoretical and Applied Mechanics 20, 21.

34. Railway Maintenance.—Organization; track design; theory and practise of track maintenance. *II*; (4). Mr. COMSTOCK

Prerequisite: Civil Engineering 51.

35. Railway Signaling.—Block and route signaling; systems in use; history of railway accidents. *I*; (1). Mr. COMSTOCK

Prerequisite: Civil Engineering 51.

50-51. Seminar.—Discussion of assigned topics and reports. *I, II*; (1).

Mr. COMSTOCK

60. Electric Railway Principles.—Mechanics of traction; train resistance; braking of electric railway trains; methods of solving fundamental electric railway problems. *II*; (2). Assistant Professor BUCK

Prerequisite: Theoretical and Applied Mechanics 25; Electrical Engineering 25, 75.

61. Electric Traction.—Selection and operation of equipment. (A condensed course for students in railway mechanical engineering and others.) *II*; (3).

Assistant Professor BUCK

Prerequisite: Theoretical and Applied Mechanics 21 or 25; Electrical Engineering 11, 61, or 25, 75.

62. Electric Railway Laboratory.—Tests of electrical machinery used in railway service. *I*; (2). Assistant Professor BUCK

Prerequisite: Railway Engineering 60.

63. Electric Railway Laboratory.—(A continuation of Course 62.) Tests with the electric test car and the dynamometer car to determine train resistance and power consumption. *II*; (2). Assistant Professor BUCK

Prerequisite: Railway Engineering 62, 64.

64. Electric Railway Practise.—Types of equipment; energy consumption; methods of distribution. *I*; (3). Assistant Professor BUCK

Prerequisite: Theoretical and Applied Mechanics 25; Electrical Engineering 26, 76; Railway Engineering 60.

65. Electric Railway Economics.—Location and operation; choice of systems; location of power plant and sub-stations; calculation of transmission and distribution circuits; maintenance of way and of equipment; electrification of steam roads. *II*; (4). Assistant Professor BUCK

Prerequisite: Railway Engineering 64.

66. Electric Railway Machinery.—Theory and characteristics of electrical machinery used for railway service and of transmission and distribution lines. *I*; (3). Assistant Professor BUCK

Prerequisite: Railway Engineering 60; Electrical Engineering 26, 76.

67-68. Seminar.—Discussion of assigned topics and reports. *I, II*; (1).

Assistant Professor BUCK

98. Thesis.—Independent solution of some railway problem or the investigation of some subject. The thesis may be an original design or an original experimental investigation, or the analysis and discussion of facts already in existence. *II*; (3). Professor SCHMIDT, Assistant Professor SNODGRASS, Assistant Professor BUCK, Mr. COMSTOCK

99. Inspection Trip.—*I*; (no credit).

Prerequisite: Senior standing.

Courses for Graduates

The prerequisite for graduate work in railway engineering is the equivalent of the undergraduate curriculums required for the degree of Bachelor of Science in railway engineering in the branches of the subject in which registration is desired.

102. Locomotive Design.—Modern practise concerning steam pressure, compounding, superheating. *I, II; (1).* Professor GOSS

106. Locomotive Operation.—Train resistance and locomotive tractive effort; establishment of tonnage ratings. *I, II; (1).* Professor SCHMIDT and Assistant Professor SNODGRASS

108. Electric Railways.—Design, selection, and operation of electric railway equipment. *I, II; (1).* Assistant Professor BUCK

110. Railway Locations.—Effects of the location of a railway on its earning capacity; engineering and economic problems met with in original location; relocation and reduction of grades of existing lines. *I, II; (1).* Mr. COMSTOCK

RHETORIC

(See ENGLISH LANGUAGE AND LITERATURE)

ROMANCE LANGUAGES AND LITERATURE

KENNETH MCKENZIE, Ph.D., *Professor*

THOMAS EDWARD OLIVER, Ph.D., *Professor*

JOHN DRISCOLL FITZ-GERALD, II, Ph.D., *Professor of Spanish*

DAVID HOBART CARNAHAN, Ph.D., *Associate Professor*

DAVID SIMON BLONDHEIM, Ph.D., *Assistant Professor*

ARTHUR ROMEYN SEYMOUR, Ph.D., *Associate*

OLIN HARRIS MOORE, Ph.D., *Associate*

CHARLES SERAPHIN CARRY, *Assistant*

LOUIS ALLEN, A.M., *Assistant*

RAFAEL ARCANGEL SOTO, B.S., A.B., *Assistant*

ERIC ALLEN DAWSON, A.M., *Assistant*

HERBERT KING STONE, A.B., *Assistant*

JOHN RAYMOND SHULTERS, A.M., *Assistant*

MANUEL LOPEZ, A.B., *Assistant*

LOUIS PHILIP COSTA, A.M., *Assistant*

PARK POWELL, A.B., B.S., *Assistant*

ORLANDO D'AMATO, A.B., *Assistant*

PEDRO BACH Y RITA, *Assistant*

CINCINNATI GIOVANNI BATTISTA LAGUARDIA, A.B., *Assistant, Summer Session*

FRENCH

Major: 20 hours of French, exclusive of French 1a, 1b, 2a, 6a, 6b, 9a, and 9b.

Minors: 20 hours in not more than three of the following subjects: English (excluding Rhetoric 1-2), German, Greek, Italian, Latin, Spanish, history, and philosophy, provided that 8 hours must be taken in one subject other than a Romance language.

ROMANCE LANGUAGES

Major: 20 hours in French and one other Romance language, exclusive of French 1a, 1b, 2a, 6a, 6b, 9a, 9b, Italian 1a, 1b, Portuguese 1a, 1b, Spanish 1a, 1b.

Minors: 20 hours in not more than three of the following subjects: English (excluding Rhetoric 1-2), German, Greek, Italian, Latin, Spanish, history, and philosophy, provided that the minor does not include any language contained in the major in Romance languages.

A. FRENCH

Courses for Undergraduates

1a-1b. Elementary Course.—Grammar; pronunciation; reading of modern authors; composition; conversation. *I, II; (4).*

Professor MCKENZIE, Dr. MOORE, Mr. CARRY, Mr. ALLEN, Mr. DAWSON, Mr. STONE, Mr. SHULTERS, Mr. POWELL

2a-2b. Modern Prose, Poetry, and Drama.—Rapid reading of modern authors; advanced syntax and composition. *I, II; (4).*

Professor OLIVER, Associate Professor CARNAHAN, Assistant Professor BLONDHEIM, Dr. MOORE, Mr. STONE

Prerequisite: French 1a-1b.

5a-5b. Introduction to French Literature.—Authors of the last three centuries. Composition; review of the grammar. *I, II; (3).*

Professor FITZ-GERALD, Dr. MOORE

Prerequisite: French 2a-2b, or an equivalent.

6a-6b. Second-Year Conversation.—Mainly classroom work. (Does not count toward a major in French.) *I, II; (1).*

Mr. CARRY

Prerequisite: French 1a-1b, with a grade of at least 85.

7a-7b. Intermediate Composition and Conversation.—Conducted entirely in French, giving facility in idiomatic expression in writing and speaking. Reading; themes; talks upon France and French life. *I, II; (2).*

Mr. CARRY

Prerequisite: French 2a-2b, or 6a-6b.

NOTE: Required of those who are given the recommendation of the department to teach French.

8a-8b. Advanced Composition and Conversation.—French life and literature. Idiomatic construction; syntax; themes. Conducted entirely in French. *I, II; (2).*

Mr. CARRY

Prerequisite: French 7a-7b.

25. Course for Teachers.—Methods of teaching French in this country and abroad; actual contact with classroom problems. *I; (2).*

Associate Professor CARNAHAN

Prerequisite: Twenty-four hours' credit in French, including French 7a-7b.

28a-28b. Senior Thesis.—For candidates for honors in French; open to other seniors. *I, II; (1).*

Members of the department

Courses for Advanced Undergraduates and Graduates

Prerequisite for the courses following: at least three years of college French or the equivalent.

10a-10b. Survey of French Literature.—Special periods and authors. The main currents of French literature from the beginning to the present time. *I, II; (3).* Associate Professor CARNAHAN

24a-24b. Seventeenth and Eighteenth Century Drama.—Corneille, Racine, Moliere, Voltaire, Marivaux, Sedaine, Beaumarchais. Lectures and interpretation. *I, II; (2).* Professor OLIVER

17a-17b. Nineteenth Century Drama.—Victor Hugo, Dumas, Augier, Sardou, Becque, Brieux, Hervieu, Bourget, Donnay, Rostand, and other dramatists. Dramatic criticism. *I, II; (2).* Professor MCKENZIE

45b. French Realism.—Flaubert, Maupassant, E. and J. de Goncourt, Daudet, Zola. Lectures; reports on collateral reading. Conducted in French if desired. *II; (2).* Dr. MOORE

50a-50b. French Phonetics and Pronunciation.—Elementary phonetics; a detailed study of present-day pronunciation; practical exercises. *I, II; (1).* Assistant Professor BLONDHEIM

Courses for Graduates

Before entering upon the study of Romance Languages as a major for an advanced degree, a candidate must have had at least (a) three years of college work in French, together with a reading knowledge of Italian or Spanish; or (b) two years of college work in French and the same in Italian or Spanish. The candidate must also have had satisfactory training in Latin, and be able to read German prose.

Graduate students who select Romance languages as a first or second minor must have had at least two years of college work in the language desired and be able to read German prose.

101. Old French Epic Literature.—Critical reading and interpretation of national and courtly epics and collateral study of their history. *Twice a week; I, II; (1 unit).* Professor OLIVER

[102. Old French Lyric and Prose Literature.—Critical interpretation of the earlier Old French didactic, chronicle, and lyric writers; history of these types of medieval literature. *Twice a week. I, II; (1 unit).* Not given, 1916-17.

Professor OLIVER]

106. Early French Drama.—Origins of the drama in France, and its development up to the Renaissance. *Twice a week. I, II; (1 unit).*

Associate Professor CARNAHAN

[103. Seventeenth Century Prose Writers.—French culture, society, and prose literature of the seventeenth century; the great preachers and moralists; Jansenism and Port Royal; formation of the classic ideals. *Once a week; I, II; (½ unit).* Not given, 1916-17.

Professor OLIVER]

104. Eighteenth Century Prose Writers.—Society, culture, and prose literature of the eighteenth century; attack on the classic ideals; the revolutionary spirit; first movements towards romanticism. *Once a week; I, II; (½ unit).*

Professor OLIVER

119. Belgian Literature in French Since 1880.—Reading and reports. *Once a week; I, II; (½ unit).*

Dr. GILLET

[127. **French Romanticism.**—Origin and development of the romantic movement in France. *Twice a week; I, II; (1 unit).* Not given, 1916-17.

Associate Professor CARNAHAN]

[137. **French Literary Criticism before the French Revolution.**—History of criticism in antiquity and in the Italian Renaissance; the French critics; classicism. *Twice a week; I, II; (1 unit).* Not given, 1916-17.

Assistant Professor BLONDHEIM]

139. **French Literary Criticism in the Nineteenth Century.**—The leading critics; development of literary movements. *Twice a week; I, II; (1 unit).*

Assistant Professor BLONDHEIM

B. ITALIAN

Courses for Undergraduates

1a-1b. **Elementary Course.**—Grammar; composition; conversation; reading. *I, II; (3).*

Professor MCKENZIE, Mr. D'AMATO

Course for Advanced Undergraduates and Graduates

2a-2b. **Italian Literature.**—Italian writers of the nineteenth century. Composition; conversation. Introduction to the study of Dante. *I, II; (2)*

Professor MCKENZIE

Prerequisite: A reading knowledge of Italian.

Courses for Graduates

[140. **Italian Literature of the Thirteenth and Fourteenth Century.**—Dante, Petrarch, Boccaccio. *Twice a week; I, II; (1 unit).* Not given, 1916-17.

Professor MCKENZIE]

143. **Italian Literature of the Fifteenth and Sixteenth Centuries.**—Special attention will be given to the romances of chivalry. *Twice a week; I; (1 unit).*

Professor MCKENZIE

[146. **Modern Italian Literature.**—Critical study of important Italian writers of the nineteenth century. *Twice a week; II; (1 unit).* Not given, 1916-17.

Professor MCKENZIE]

C. PORTUGUESE

Courses for Undergraduates

1a-1b. **Elementary Course.**—Grammar; conversation; reading. *I, II; (4).*

Mr. COSTA

D. SPANISH

Courses for Undergraduates

1a-1b. **Elementary Course.**—Grammar; pronunciation; reading; composition; conversation. *I, II; (4).*

Dr. SEYMOUR, Mr. ALLEN, Mr. SOTO, Mr. DAWSON, Mr. SHULTERS, Mr. LOPEZ, Mr. COSTA, Mr. POWELL, Mr. D'AMATO, Mr. BACH Y RITA

2a-2b. **Modern Spanish.**—Rapid reading of modern authors; advanced grammar; conversation; composition; commercial correspondence. *I, II; (4).*

Professor FITZ-GERALD, Mr. SOTO, Mr. D'AMATO

Prerequisite: Spanish 1a-1b, or equivalent.

3a-3b. **Introduction to Spanish Literature.**—Rapid reading of modern authors, and of the more important writers of the seventeenth century. *I, II; (3).*

Dr. SEYMOUR

Prerequisite: Spanish 2a, 2b.

4a-4b. Business Correspondence and Conversation.—Reading of facsimile business correspondence; writing of business letters; conversation. Reports in Spanish on consular and governmental documents. Conducted in Spanish. *I, II; (2).* Dr. SEYMOUR

Prerequisite: Spanish 2a-2b.

Course for Advanced Undergraduates and Graduates

11a-11b. The Spanish Drama of the Sixteenth and Seventeenth Centuries.—Earlier dramatists; representative plays of Lope de Vega, Calderon, Ruiz de Alarcon and Tirso de Molina. Reports on outside reading. *I, II; (2).* Dr. SEYMOUR

Prerequisite: Spanish 3a-3b.

Courses for Graduates

[132. The Novela of the Golden Age.—Political and social conditions in Spain from 1560 to 1700; *Don Quixote* and the *Novelas Exemplares* of Cervantes. *Twice a week; I, II; (1 unit).* Not given, 1916-17. Professor FITZ-GERALD]

133. Origin of the Spanish Novela and of the Comedia.—The development of Spanish prose fiction and of Spanish dramatic art for the period previous to the Golden Age. *Twice a week; I, II; (1 unit).* Professor FITZ-GERALD

134. The Spanish Ballad.—Types of the ballad. Lectures; collateral readings; reports. *Twice a week; I, II; (1 unit).* Dr. SEYMOUR

[135. The Modern Novel in Spain.—Development of the modern novel in Spain from the middle of the nineteenth century to the present time; development of the novel in Spain, France, and Italy. *Twice a week; I, II; (1 unit).* Not given, 1916-17. Dr. SEYMOUR]

E. ROMANCE PHILOLOGY

Courses for Graduates

[171. Introduction to Romance Philology.—Historical phonology and Morphology of the Romance languages. *Twice a week; I, II; (1 unit).* Not given, 1916-17. Professor FITZ-GERALD]

175. Old French Phonology and Morphology.—Development of Old French from Vulgar Latin. *Twice a week. I, II; (1 unit).*

Assistant Professor BLONDHEIM

181. Origins of the Italian Language.—Italian literature previous to Dante. *Twice a week; II; (1 unit).* Professor MCKENZIE

185. Oldest Monuments of the Spanish Language.—Origins of Spanish poetry. Historical grammar. *Twice a week; I, II; (1 unit).* Professor FITZ-GERALD

195. Seminar.—Research work in preparation for theses. *I, II; (1 unit).*

Members of the department.

Summer Session Courses

FRENCH

S 1a. Elementary Course.—Pronunciation, grammar, composition, reading. (4). Dr. MOORE

S 1b. Elementary Course (continued).—(4).

Mr. CARRY

Prerequisite: French 1a, S1, one year of high-school French, or the consent of the instructor.

S 2. Modern French.—Rapid reading; composition, conversation. Comport's *French Prose Composition*; Loti's *Peucheur d'Islande*; Merimee's *Colomba*; Erckman-Chartrian's *Le Juif Polonais*; Bazin's *Les Oberle*; Hugo's *Ruy Blas*; Scribe's *Bataille de Dames*. (3). Mr. CARRY

Prerequisite: One year of university French or its equivalent.

S 3. Composition and Conversation.—Practise in speaking and writing simple French. (1). Mr. CARRY

Prerequisite: The approval of the instructor.

S 4. Composition and Conversation (intermediate course).—Conducted in French. (1). Mr. CARRY

Prerequisite: Ability to understand spoken French, and the approval of the instructor.

S 9. Modern French Drama.—Rapid reading of modern plays. (1).

Associate Professor CARNAHAN

Prerequisite: Two years of university French, or an equivalent.

***S 100. Seminar.**—An opportunity for graduate work in French literature will be afforded properly qualified students. Dr. MOORE

Spanish

S 1a. Elementary Course.—Grammar, reading. (4). Mr. LAGUARDIA

Equivalent: Spanish 1a.

S 2. Conversation and Composition.—For description see Spanish 2a-2b. (1).

Mr. LAGUARDIA

Prerequisite: One year of university Spanish or its equivalent.

SCANDINAVIAN LANGUAGES AND LITERATURE

(See GERMANIC LANGUAGES AND LITERATURE.)

THE SOCIAL SCIENCES

(See ECONOMICS, HISTORY, POLITICAL SCIENCE, and SOCIOLOGY.)

SOCIOLOGY

EDWARD CARY HAYES, Ph.D., *Professor*

JAMES GARFIELD STEVENS, Ph.D., *Associate*

HERBERT KNIGHT DENNIS, A.M., *Assistant*

Cooperating:

HENRY ELMER HOAGLAND, A.M., *Instructor in Economics*

JAMES P LICHTENBERGER, Ph.D., *Professor of Sociology, University of Pennsylvania, Summer Session*

Major: 20 hours from any courses offered in the department.

Minors: 20 hours chosen from two or three of the following subjects: History, economics, political science, philosophy, and psychology.

Courses for Undergraduates

1. The Principles of Sociology and Their Application to Present Problems.—*I or II*; (3). Professor HAYES, Dr. STEVENS, Mr. DENNIS

Prerequisite: Junior standing.

2. **Social Psychology and Social Control.**—A summary of certain teachings of Tarde, Le Bon, Durkheim, Giddings, Ward, Ross and others, with special reference to the ways in which the sentiments, opinions, and conduct of the members of society are shaped. *II*; (3). Mr. DENNIS

Prerequisite: Sociology 1.

7. **The Social Problems of the Rural Community.**—*II*; (2).

Professor HAYES, Mr. DENNIS

Prerequisite: Junior standing.

Courses for Advanced Undergraduates and Graduates

3. **Social Evolution.**—Modes of social activity among savage, barbarous, and civilized people; family organization, practical arts, economic wants and institutions, origins of government and law, codes of morality, religions; inductions from such facts, as to the theory of social evolution and the method of progress. *II*; (3).

Professor HAYES

Prerequisite: Sociology 1.

8. **Charities.**—Evolution of modern organized philanthropy, public and private; causes and prevention of poverty; organization and management of charitable institutions. *I*; (3).

Dr. STEVENS

Prerequisite: Sociology 1 or Economics 1; junior standing.

9. **Criminology.**—Nature, causes, and treatment of the criminal; evolution of modern methods of criminal procedure and penology; recent experiments and tendencies. *II*; (3).

Dr. STEVENS

Prerequisite: Sociology 1 or senior standing.

10. **Population.**—Theories and policies of population; Malthus' Principle and its critics; problems in the population of the United States; immigration, race-mixture, conditions affecting public health, death-rate, birth rate, "race-suicide," marriage, divorce; selective influences at work on the "population type." *I*; (3).

Dr. STEVENS

Prerequisite: Sociology 1 or Economics 1; senior standing.

11. **Basis of Social Theory.**—*I*; (2).

Professor HAYES

Prerequisite: Senior standing and the consent of the instructor.

12. **The Labor Problem.**—The same as Economics 12.

Mr. HOAGLAND

Prerequisite: Economics 1, 3; students whose major subject is sociology and who have had 6 hours in history, and Sociology 1, may be admitted without Economics 3.

14. **Social Statistics.**—Social investigation and research. Vital statistics and population in the light of data afforded by official publications. Social and community surveys. The statistical method applied to sociology and social problems. *II*; (3).

Dr. STEVENS

Prerequisite: Sociology 1 or Economics 1, and, Sociology 10; senior standing. Juniors having the other prerequisites may be admitted by special permission of the instructor.

15. **The Family.**—Evolution of the family and marriage; its educational, moral, and political significance at different stages of social development. *II*; (3). Not given, 1916-17.]

21. Socialism and Social Reform.—The same as Economics 21.

Mr. HOAGLAND

Prerequisite: Economics 1, 3; students whose major subject is sociology and who have had 6 hours in history, and Sociology 1, may be admitted without Economics 3.

Courses for Graduates

Preparation for graduate work in sociology must include the equivalent of twelve semester hours in the social sciences, of which at least three must be in sociology, and three in the principles of economics. The remainder may be in any combination of these two subjects, or of history and political science.

[101. Sociological Method.—Methods of advancing the science of sociology; adaptability to sociological investigation of methods described in Pearson's *Grammar of Science*, Wundt's *Methodenlehre*, zweite abtheilung, Seignobos' *La Methode Historique Appliquee aux Sciences Sociales*, Bernheim's *Historische Methode*, Spencer's *Study of Sociology*, and Giddings' *Inductive Sociology*. *Three times a week; I; (1 unit)*. Not given, 1916-17.]

102. The development of Sociology.—Reading of sociological works; discussions; lectures. *Twice a week; I, II; (1 unit)*. Professor HAYES

150. Seminar.—Detection and statement of problems. Preparation of theses. *Twice a week; I, II; (1 or 2 units)*. Professor HAYES

Summer Session Courses

S 1. Social Causation.—Cause and effect in society. (2).

Professor LICHTENBERGER

S 5. Practical Social Problems.—A survey of the most important contemporary social civic problems. (1).

Professor LICHTENBERGER

***S 15. The Family.**—For description see Sociology 15. (2).

Professor LICHTENBERGER

SPANISH

(See ROMANCE LANGUAGES AND LITERATURE.)

TRANSPORTATION

ERNEST RITSON DEWSNUP, A.M., *Professor*

Courses for Undergraduates

1. Transportation System of the United States.—The development and economic problems of railway and other transportation in this country. *I; (3)*.

Professor DEWSNUP

Prerequisite: Economics 1 or 2; junior standing.

35a-35b. Thesis.—Investigation of problems in railway administration. A preliminary outline must be filed with the department by the second Friday of October, an extended outline and bibliography by the second Friday in November, and a first draft of at least fifteen pages of the thesis must be submitted by the second Friday in January. *I, II; (2)*.

Professor DEWSNUP

Prerequisite: Full senior standing in railway administration.

Courses for Undergraduates and Graduates

2. Transportation Policy in Europe and in the United States.—The regulation of railways in the United States and Europe. *II; (3)*. Professor DEWSNUP

Prerequisite: Transportation 1; Economics 1.

7. Railway Organization.—The departments and functions of the American railway; traffic and operating departments; relative merits of the departmental, divisional, and unit systems of organization; organizations of foreign railways; railway associations, labor, discipline, and training. *I*; (2). Professor DEWSNUP

Prerequisite: Accountancy 1 and Economics 1, previously or concurrently. For senior students in the College of Engineering, Economics 2.

12. Freight Shipment.—Preparation of goods for shipment, chiefly by railway; freight classifications; class ratings; rate adjustment in New England, Trunk Line and Central Freight Association Territory; main features of southern and western rate adjustment; the express and parcel post systems. *II*; (2).

Professor DEWSNUP

Prerequisite: Transportation 7, or 60 hours of university work.

[13. Railway Traffic Administration.—Methods of passenger traffic management. *I*; (3). Not given, 1916-17.

Prerequisite: Transportation 7, or credit or concurrent registration in Transportation 1.]

17. Railway Terminal Management.—Freight and passenger terminals. *I*; (3).

Professor DEWSNUP

Prerequisite: Transportation 7, or credit or concurrent registration in Transportation 1; Economics 1.

[22. Railway Train Service.—The standard code of train rules; its application to train dispatching; block-signaling practise; time-table construction. An inspection trip to Chicago of four days' duration forms part of this course. Expenses average about \$12.00. *II*; (3). Not given, 1916-17.

Prerequisite: Transportation 1, 7, and 13.]

26. The Economics of Railway Construction and Maintenance.—The bearing of traffic conditions upon location and types of construction; the present maintenance policy of the railways in regard to roadway and equipment. An inspection trip to Chicago of four days' duration, April 2, 3, 4, and 5, 1917 forms part of the course. Expenses average about \$12.00. *II*; (3)

Professor DEWSNUP

Prerequisite: Transportation 1, 7, and 17.

Courses for Graduates

[101. Railway Rate Policy.—*Twice a week; I; (1 unit).* Not given, 1916-17.]

[102. The Fiscal Administration of American Railways.—*Twice a week; II; (1 unit).* Not given, 1916-17.]

103. Foreign Railway Administration.—*Twice a week; I; (1 unit).*

Professor DEWSNUP

104a. Standards of Railway Operation.—The work of this course requires a cycle of three years for its completion, though credit will be given for each semester's work. 104a deals with organization and maintenance of standards, 104b with freight service, 104c with passenger service. *Once a week or, at the option of the instructor, twice a week; II; (1 unit).*

Professor DEWSNUP

ZOOLOGY

(Including HUMAN ANATOMY.)

HENRY BALDWIN WARD, Ph.D., *Professor*

JOHN STERLING KINGSLEY, D.Sc., *Professor*

FRANK SMITH, A.M., *Professor*

CHARLES ZELENY, Ph.D., *Professor*

VICTOR ERNEST SHELFORD, Ph.D., *Assistant Professor*
 HARLEY JONES VANCLEAVE, Ph.D., *Associate*
 HENRY GUSTAV MAY, B.S., *Research Assistant*
 JOSEPH KRAFKA, JR., M.S., *Research Assistant*
 BESSIE ROSE GREEN, A.M., *Assistant*
 GEORGE MARSH HIGGINS, A.M., *Assistant*
 RALPH HARLAN LINKINS, A.M., *Assistant*
 JAMES ERNEST KINDRED, A.M., *Assistant*
 ROBERT HILLS KINGMAN, A.B., *Assistant*
 WILLIAM SIDNEY SPICER, M.S., *Assistant*
 MORRIS JOHNSON KERNALL, A.M., *Graduate Assistant*
 FRANCIS MARSH BALDWIN, A.M., *Graduate Assistant*
 MINNA ERNESTINE JEWELL, A.M., *Graduate Assistant*
 JESSE ROY CHRISTIE, B.S., *Graduate Assistant*
 GERTRUDE MELLEN HOOPER, A.B., *Graduate Assistant*

Major: 20 hours from any courses offered in the department, excluding Zoology 1, and including Zoology 3, 4, and 5.

Minors: 20 hours chosen from two or three of the following subjects: animal husbandry (Animal Husbandry 30), bacteriology, botany, chemistry, entomology, physics, physiology, psychology, paleontology, and physiography.

Courses 1 and 2 constitute an introduction to later work in zoology. In the second year, a student may choose as a line of work either morphological, experimental, ecological, faunistic, or systematic courses. The courses on microscopical technics (3), heredity and evolution (5), and current literature (20) are of value for all students. Medical students should take courses 3 and 6 the second year. Those preparing to teach zoology in the high school should take invertebrate morphology (4), field zoology (16, 17), and ecology (9, 11), and a course in general entomology.

A. ZOOLOGY

Courses for Undergraduates

1. **General Zoology.**—Animal biology, principles of structure; function, interrelations, origin, and development of animal life; simpler and best-established generalizations in zoological theory. Lectures, laboratory; quiz work. *I* or *II*; (5). Professor WARD, Assistant Professor SHELFORD, Dr. VAN CLEAVE, and assistants

2. **Vertebrate Zoology and Comparative Anatomy.**—Classification of the Chordata; the early stages of vertebrate embryology; structure of vertebrate tissues; anatomy of systems of organs considered in respect to their function, ontogeny, and evolution in the vertebrate series; anatomical studies of types of the Chordata. Lectures; laboratory; quiz work. *II*; (5).

Professor KINGSLEY and assistants

Prerequisite: Zoology 1.

4. **Invertebrate Morphology.**—Morphology of a series of invertebrates; invertebrate structure and development; the application of biological principles. Laboratory; lectures; demonstrations. *II*; (3).

Dr. VAN CLEAVE

Prerequisite: Zoology 1.

5. **Heredity and Evolution.**—Facts and present views; proofs of organic evolution; probable factors involved. Lectures; demonstrations; assigned reading. *II*; (2).

Professor ZELNY

Prerequisite: One year of university work.

16. Economic Ornithology.—Common birds of the vicinity. Identification; food relations; seasonal distribution; migration activities. Economic importance of birds and their conservation. Lectures; assigned reading; a few field trips in the latter part of the semester. *II*; (2).
Professor SMITH

19a-19b. Advanced Ornithology.—(Continuation of 16.) Systematic and field work; economic and technical literature. *I, II*; (2-5).¹
Professor SMITH
Prerequisite: Zoology 16 or equivalent.

Courses for Advanced Undergraduates and Graduates

3. Microscopical Technics and Vertebrate Embryology.—Vertebrate embryo in early stages of development; methods of fixation, embedding, section cutting, staining, and mounting; preparation of material for use in introductory embryology. Lectures; laboratory. *I*; (3).
Professor KINGSLEY
Prerequisite: Zoology 1, 2.

6. Vertebrate Organogeny.—Development of the organs of the vertebrate body. Lectures; assigned readings; laboratory studies on embryos of the chick, dogfish, *Amblystoma*, and pig. (A continuation of course 3.) *II*; (3).
Professor KINGSLEY
Prerequisite: Zoology 1, 2, 3.

9. Animal Ecology.—The relations of animals to their natural environments. Field and experimental work; lectures on the natural history of mammals, birds, reptiles, and amphibians. *II*; (3)
Assistant Professor SHELFORD
Prerequisite: One year of zoology or one and one-half years of university work, including Zoology 1.

11. Experimental Ecology and Geography.—The physiology of environmental relations; analysis of behavior. World and regional aspects of behavior and ecology; animal distribution as related to climate and vegetation. *I*; (2-4).¹
Assistant Professor SHELFORD
Prerequisite: One year of zoology and senior standing.

25-26. Experimental Zoology.—Experimental embryology; regeneration; heredity; variation; evolution. Laboratory; assigned reading; conference. *I, II*; (5).
Professor ZELENY
Prerequisite: Two years of university work, including one year in zoological courses.

17. Field Zoology.—Collection, preservation, and identification of common representatives of the lower vertebrates and of the various groups of land and fresh-water invertebrates (excluding insects) in the vicinity; identification work on living and preserved material from larger rivers and lakes; observations on the habits and life histories of selected forms. Field and laboratory work; assigned readings. *I*; (4).
Professor SMITH
Prerequisite: One year in zoology, and senior standing.

18. Advanced Field Zoology.—(A continuation of course 17.) Taxonomic or distributional problems in connection with the local fauna. *II*; (3-5).¹
Professor SMITH
Prerequisite: Zoology 17.

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course: e. g., not 2-5, but 2, or 3, or 4, or 5.

22-23. Morphology of Vertebrates.—The skeleton and the brain, the cranial nerves, and the eye and ear. Lectures; laboratory work; dissection of types. *I, II; (2-4).*¹ Professor KINGSLEY

Prerequisite: Zoology 1, 2, 3, and 6.

21a-21b. Introduction to Zoological Research.—Morphology, life history, or reciprocal relations of invertebrates, especially parasites of man and other animals. Laboratory; conferences; assigned reading. *I, II; (2-5).*¹ Professor WARD

Prerequisite: One year in zoological courses, and senior standing.

20a-20b. Current Literature.—Presentation and discussion of the results of recent zoological investigation. (Open to all students in zoology; should be taken by those intending to graduate with a thesis.) *I, II; (1).* Professor ZELENY

Prerequisite: Three years of university work, including one year in zoology.

8a-8b. Senior Thesis.—Individual work on assigned topics. *I, II; (5).*

Members of the department

Prerequisite: Two years of zoology.

Courses for Graduates

Students entering on graduate study in the department of zoology should have had two years of undergraduate work in the subject. When chosen as a minor the courses listed for graduates and undergraduates must be preceded by at least one full year's undergraduate work in zoology. Work done at other institutions will be evaluated on conference with the head of the department.

102. Vertebrate Morphology.—The origin of vertebrates, the segmentation of the head, and the morphology of special systems. Lectures; required reading. *Twice a week; I; (½ unit).* Professor KINGSLEY

107. Parasitology.—Structure and life history of animal parasites; the relations to disease; origin and biological significance of parasitism. Conferences; assigned readings; demonstrations. *Twice a week; I, II; (1 unit).* Given in 1916-17 and alternate years. Professor WARD

109-109a. Physiological Ecology.—The regulatory mechanism of organisms; neutrality, osmotic pressure, immunity, and temperature in relation to natural environments. *109 twice a week; 109a assigned readings and reports; II; (½ unit each).* Assistant Professor SHELFORD

[110-110a. Economic Ecology.—Application of principles of physiology and ecology to problems of fisheries and pollution; insect pests and weather, forestry and conservation, etc. *110 twice a week; 110a assigned reading and reports; (½ unit each).* Not given, 1916-17. Assistant Professor SHELFORD]

111. Experimental Ecology.—The repetition of published experiments in physiology and ecology. The student selects a topic on animal reactions or on the measurement of osmotic pressure, temperature, acidity, or conductivity, with modern apparatus. *I, II; (½ to 2 units).* Assistant Professor SHELFORD

115. Factors of Individual and Racial Development.—Experimental embryology; regeneration; heredity; variation; evolution. *Twice a week; I, II; (1 unit).* Professor ZELENY

117. Faunistic Zoology.—Problems in taxonomy and distribution; field work, conference, and lectures. Students have the advantage of the collections, library, apparatus, and operation of a natural history survey of the State now in progress at the University. *Twice a week; I, II; (1 to 2 units).* Professor SMITH

¹In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

[127. **Theories of Animal Phylogeny.**—Relations of various groups of animals; signification of so-called intermediate forms; study of invertebrate larval forms and of theories of descent based on them. Lectures; assigned readings; demonstrations. *Once or twice a week; I, II; (1 unit).* Not given, 1916-17. To be given in 1917-18 and alternate years. Professor WARD]

121. **Invertebrate Morphology and Parasitology.**—Individual research course. *I, II; (1 to 2 units).* Professor WARD

122. **Vertebrate Morphology.**—Individual research course. *I, II; (1 to 2 units).* Professor KINGSLEY

123. **Faunistic and Systematic Zoology.**—Individual research course. *I, II; (1 to 2 units).* Professor SMITH

124. **Experimental Zoology.**—Individual research course. *I, II; (1 to 2 units).* Professor ZELNY

125. **Animal Ecology and Behavior.**—Individual research course. *I, II.* Assistant Professor SHELFORD

B. HUMAN ANATOMY

1. **Introduction to Human Anatomy.**—The human skeleton; dissection of the viscera of the dog. *I; (3)* Mr. SPICER

Prerequisite: Zoology 1, 2, 3, 6.

2. **Introduction to Human Anatomy.**—Dissection of the human extremities and the brain of man. *II; (3).* Mr. SPICER

Prerequisite: Anatomy 1.

Summer Session Courses

S 1. **General Zoology.**—For description see Zoology 1. (4).

Assistant Professor SHELFORD, Mr. BALDWIN

S 13. **Elements of Embryology and Microscopical Technics.**—Laboratory work, lectures, and quizzes. The fundamental features of cell structure and of animal development; training in the simpler methods of preserving, sectioning, and mounting. (2). Mr. BALDWIN

*S 9. **Animal Ecology.**—The relations of animals to their natural environments. Field and experimental work and lectures. (2 or 4).¹

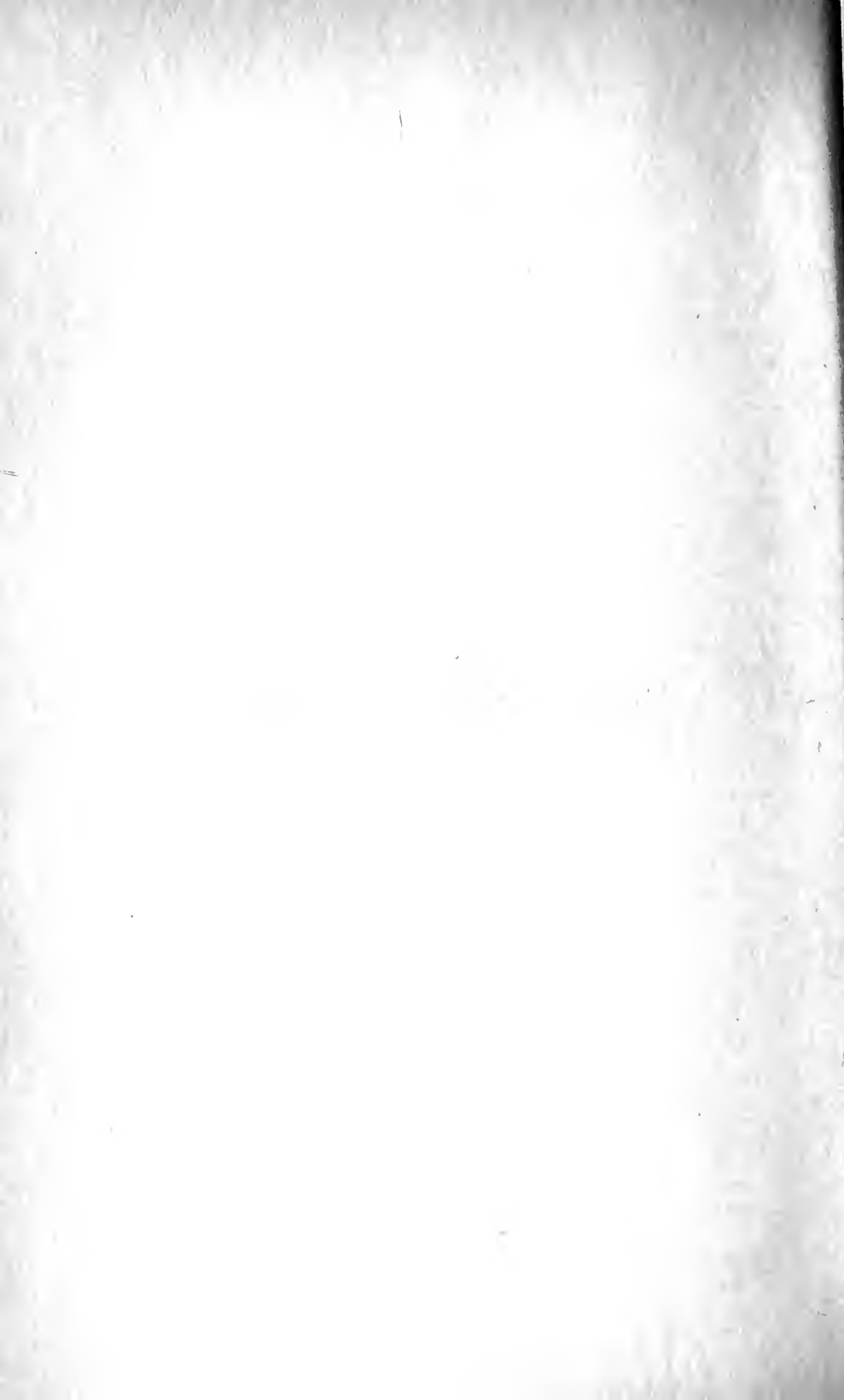
Assistant Professor SHELFORD

*S 125. **Animal Ecology and Behavior.**—Individual research course. ($\frac{1}{2}$ to 2 units). Assistant Professor SHELFORD

¹In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.



PART IV
UNIVERSITY EXTENSION



UNIVERSITY EXTENSION

Extension work has not been organized as a separate administrative unit in the University of Illinois. Several departments, however, have initiated activities, both on the campus and in the State at large, which serve to make some of the facilities of the University available to groups of mature persons who are engaged in various industries and professions.

AGRICULTURE

Each of the departments of the College of Agriculture does extension work and so far as possible provides special men for this purpose. In addition to this, a separate service known as Agricultural College Extension, offers courses in the principles and methods of extension work (see page 248), conducts extension enterprises that do not deal with technical subjects, and cooperates with the other departments in projecting their work in the State.

Some of the more general College extension enterprises are:

(1) A two-weeks course in agriculture, known as the Corn Growers' and Stockmen's Convention, held annually at the College of Agriculture since 1898. The work includes lectures, conferences, and demonstrations in the subjects of stock-judging, milk-testing, farm mechanics, and farm crops. (Omitted in 1915 and 1916 on account of the "foot-and-mouth disease".)

(2) Agricultural-extension schools of a week's duration. About forty such schools were held in different parts of the State during 1915-16.

(3) Demonstrations held in connection with soil-fertility and crop fields throughout the State.

(4) Cooperation, by furnishing teachers and lecturers, with other educational agencies for rural communities, e. g., farmers' institutes, special lecture railway trains, the Boys' State Fair School.

(5) Educational exhibits at fairs and expositions.

(6) School and community excursions to the University.

For the Cooperative Extension Service in agriculture and home economics conducted by the University of Illinois and the United States Department of Agriculture, under the provisions of the Federal Smith-Lever Act of May 8, 1914, see pp. 402-403.

CERAMIC ENGINEERING

In addition to the regular four-year technical curriculum, the department of ceramic engineering cooperates with the clay and allied industries by offering annually, at Urbana, during the second and third weeks in January, a two-weeks industrial course in the principles underlying the manufacture of clay products, for those who have not the time nor the preparation required for academic studies. The work includes lectures, laboratory work, practise in firing kilns, and informal gatherings for question-asking. A common-school education is sufficient to enable one to do the work of this course. No charge of any kind is made. The number enrolled in January, 1915, was 47; in January, 1916, 25. The course was omitted in 1916-17.

COOPERATIVE EXTENSION SERVICE

University of Illinois and United States Department of Agriculture Under the
Smith-Lever Act

EUGENE DAVENPORT, M.Agr., LL.D., DIRECTOR OF AGRICULTURAL EXTENSION
SERVICE

Agriculture

WALTER FREDERICK HANDSCHIN, B.S., *Vice-Director of Extension Service, State
Leader of County Advisers*

GEORGE NELSON COFFEY, Ph.D., *Assistant State Leader*

JAMES DATER BILSBORROW, B.S., *Assistant State Leader*

JAMES HENRY GREENE, M.S., *State Leader in Junior Extension*

HAROLD CLAYTON M CASE, B.S., *Assistant in Farm Management Demonstration*

Agronomy

Department Specialists

ELMER TYRON EBERSOL,¹ M.S.

Animal Husbandry

DANIEL OTIS BARTO, B.S.

WILLIAM HERSCHEL SMITH, M.S.

Dairy Husbandry

HARRISON A RUEHE, M.S.

ERNEST M CLARK, B.S.

Horticulture

BETHEL STEWART PICKETT, M.S.

ALFRED JOSEPH GUNDERSON, B.S.

County Advisers

County

William George Eckhardt, B.S.	DeKalb
John S Collier, M.S.	Kankakee
Roy C Bishop, B.S.	Livingston
Arthur J Gafke, B.S.	McHenry
Jerome Edward Readhimer, B.S.	Kane
Edward B Heaton, B.S.A.	Dupage
Ernest Thompson Robbins, B.S.	Tazewell
Frank Cravens Grannis, B.S.	Will
William E Hedgcock, B.S.	Peoria
Charles Hubert Oathout, B.S.	Champaign
Albert M TenEyck, M.S.	Winnebago
Lewis W Wise, B.S.	Iroquois
Charles Judson Mann, B.S.	Bureau
Ira Sanford Brooks, B.S.	LaSalle
Frank H Demaree, M.S.	Grundy
Earl W Rusk, B.S.	Adams
J H Lloyd, ² B.S.	Hancock
David O Thompson, B.S.	McLean
Frank D Baldwin, B.S.	Mason
M L Mosher, M.S.	Woodford
I F Gillmor, ² B.S.A.	Mercer
Leland Stanford Griffith, B.S.	Lee

¹Resigned November 1, 1916.

²Employed locally as county adviser, but not on the Smith-Lever fund.

Under the provisions of the Smith-Lever Act, approved by the President of the United States on May 8, 1914, and the terms of its acceptance by the State of Illinois, the University becomes cooperatively responsible for a system of demonstration service designed to combine the results of scientific discovery with the most approved practise on the farms and in the households of the State.

A further cooperative relation has been established by the Department of Agriculture whereby the University undertakes to become jointly responsible for certain extension work which the department is conducting out of its own funds. This cooperative work consists of the following:

- (1) Cooperation with county farm bureaus in the employment of agricultural advisers.
- (2) Cooperation with local associations in home-economics demonstrations.
- (3) Employment of extension specialists in agriculture and home economics as special advisers in the field.
- (4) Cooperation with the United States Department of Agriculture in its extension activities:
 - a. In support of county advisory work.
 - b. In farm management demonstrations.
 - c. In junior extension.

Home Economics

ISABEL BEVIER, Ph.M., *Vice-Director of Home Economics Extension*

MAMIE BUNCH, A.B., *State Leader in Home Economics Demonstration*

OLIVE B PERCIVAL, B.S., *Assistant in Home Economics Demonstration*

FANNIE MARIA BROOKS, A.B., *Assistant in Home Economics Demonstration*

ANNE I GREEN, B.S., *Assistant in Home Economics Extension*

NAOMI OLIVE NEWBURN, A.B., *Assistant in Home Economics Extension*

FLOYD E FOGLE, *Assistant in Home Economics Demonstration*

The service in home economics may be classified as follows:

1. Correspondence.—Numerous requests come from individuals and clubs for help in solving some problem of preparing food, planning a house, feeding a child, or in preparing topics for club study. All such requests receive careful attention. In 1915-16, 50,440 pieces of mail were sent out.

2. Service for Organizations.—This includes demonstrations and addresses before farmers' institutes, federated or local clubs, parents' and teachers' associations, the State Fair School, or other groups of people. In 1915-16, 149 such organizations were served, reaching 14,710 people.

3. The School for Housekeepers.—This is held annually, at Urbana, during the last two weeks in January. It offers instruction in food, clothing, and shelter, and provides an opportunity for the discussion of some of the fundamental problems of home life and management. The attendance has increased during the past seven years from 45 to 426. No fees are charged in connection with this school.

4. Movable Schools.—The department of household science will, in so far as possible, provide instruction on request for a movable school in any community which is sufficiently interested to pay the local expenses (hire of hall, etc.) and the traveling and living expenses for the week of one or two instructors. During the year 1915-16, sixty-one movable schools were held in the State, with an enrollment aggregating 17,649. Nineteen of these were two-instructor schools, and forty-two were one-instructor schools. Seventy-five counties were served through all these avenues.

5. Demonstration Car.—This car marks a new departure in demonstration work. Hitherto, demonstrations in Home Economics have been confined largely to the cooking of food. It is the purpose of this car to extend this method of presentation to power equipment and house furnishings; to show the machines, the kitchen utensils, and the color schemes, not just to talk about them.

In accordance with this idea, this car shows how power commonly used upon the farm may also be employed in performing a large part of the heavy labor of the home, thereby contributing to the health and comfort of the housekeeper; how to secure an adequate water supply for both the house and barn with the necessary provision for sewage disposal; and, finally, how, by attention to equipment and to the principles of form and color, the essentials of comfortable living may be secured for the country home at a reasonable cost.

The car and its equipment provide sufficient material for demonstration work for a week. The University pays the salaries of the demonstrators and furnishes the exhibit. The local committee is responsible for the following details:

- I. Proper advertising of the car.
- II. Arranging with local railroad as to the location of the car on a spur or switch where it will not be bumped and where it is readily accessible.
- III. Securing a suitable hall for lectures and demonstrations that cannot be held in the car.
- IV. Providing hard coal for the heater, gasoline for the engines, and janitor service.
- V. Providing board, room, and comfortable living conditions for the demonstrators, whose hours of service are long and duties exacting.
- VI. Mileage of the car.

Program for a Movable School with One Instructor

Monday	2:00—4:00	Lecture: Food and its functions. Exhibit showing relative values of foods.
Tuesday	2:00—4:00	Lecture: Foods containing nitrogen. Demonstration of milk, egg, cheese, or vegetable protein dishes.
Wednesday	2:00—4:00	Lecture: Meats and meat substitutes. Demonstration of various modes of preparation.
Thursday	2:00—4:00	Lecture: Carbohydrate foods. Demonstration of breads or cereals and starchy vegetables.
Friday	2:00—4:00	Lecture: Water and mineral salts in the diet. Demonstration of salads or a balanced meal.

Program for a Movable School with Two Instructors

Health and Home Problems

Monday	1:30	Domestic science in its various relations to the home.
	2:30	Demonstration: The bed room prepared for the sick.
Tuesday	10:00	Essentials in home decoration.
	11:00	First aid (for camp fire girls).
	1:30	Fabrics in their relation to home uses.
	2:30	Demonstration: Invalid cookery.
Wednesday	10:00	Home sanitation.
	11:00	Selection and care of clothing.
	1:30	First aid to mothers.
	2:30	Planning meals—Food values illustrated by charts and exhibits.
Thursday	10:00	Helpful devices for home care of the sick.
	11:00	Tissue building foods.
	1:30	Personal hygiene.
	2:30	Demonstration: Dishes rich in tissue builders.
Friday	10:00	Carbohydrates and fats in the diet.
	11:00	The dress, care, and feeding of infants.
	1:30	Demonstration of dishes supplying water and mineral salts to the diet.
	3:30	Health laws and state aids.

Single Lectures

Any one of the following list of subjects will be treated in a single lecture:

The care of food in the home.
 The planning of meals.
 The cost of living.
 Infant foods and feeding.
 Food for the child.
 The composition and cooking of meals.
 The use of vegetables as food.
 The lunch basket.
 Selection of textiles for the home.
 Suggestions for home dressmaking—use of patterns.
 Color and furnishing and their relation to interior decoration.
 The well dressed woman.
 Planning the farm house.
 The bedroom and its furnishings.
 The dining room and its appointments.
 Household science and the home.
 Essentials and non-essentials in good housekeeping.
 How to improve our homes.
 System in housekeeping.

PROGRAM OF DEMONSTRATION LECTURES WITH
 THE HOME ECONOMICS CAR, 1916-17

MONDAY

- 2:00- 4:00—Kitchen Equipment.....*Miss Percival*
 The Gasoline Engine and Housework.....*Mr. Fogle*
 7:30 —The Plan and Purpose of the Car (illustrated).....*Miss Percival and Mr. Fogle*

TUESDAY

- 9:30-11:30—Selection of Utensils and Furnishings from the Standpoint of Ease in Caring
 for Them; Cleaning of Metals.....*Miss Percival*
 The Hydro-pneumatic Water System; Tanks, Pumps and Piping.....*Mr. Fogle*
 2:00 —The Service Part of the House: the Kitchen and Dining Room.....*Miss Percival*
 7:30 —A Proper Water System and How to Use It in a Country Home.....*Mr. Fogle*

WEDNESDAY

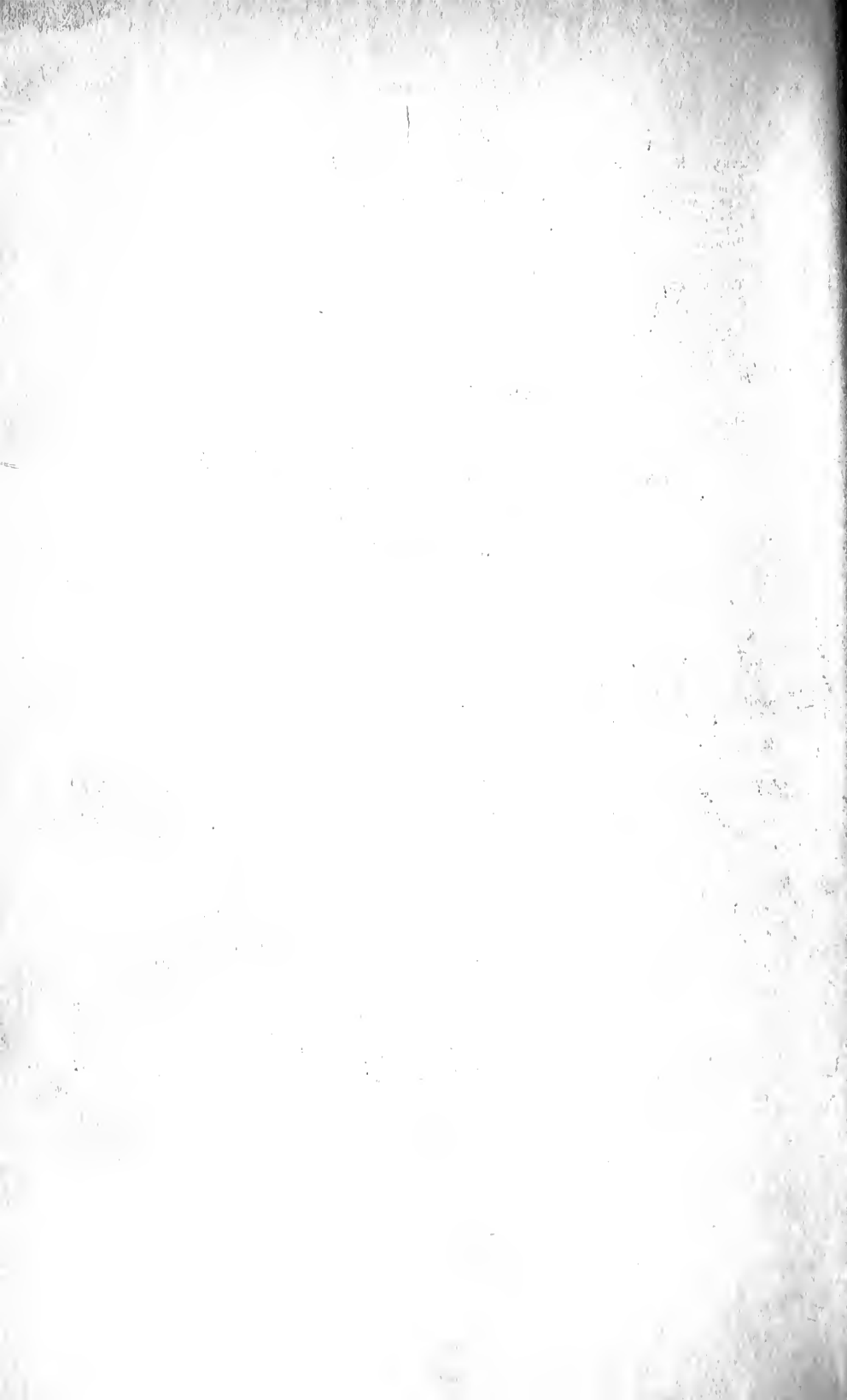
- 9:30-11:30—Household Appliances; Advantages and Disadvantages.....*Miss Percival*
 Septic Tanks; Chemical Sewage Disposal Systems; Sanitary Floor Finishes;
 Sanitary Walls; Costs and Comparisons.....*Mr. Fogle*
 2:00 —The Bed Room and Its Furnishings: Color Schemes—Walls, Floors; Win-
 dows—Screens, Draperies; Beds—Springs, Covers, Mattress.....*Miss Percival*
 7:30 —Sanitation of the Home Yard: Sewage Disposal; Septic Tanks.....*Mr. Fogle*

THURSDAY

- 9:30-11:30—The Saving of Energy, Time, and Money in the Selection of Clothes and
 Household Linens, Laundry Problems; Removal of Stains.....*Miss Percival*
 Lighting Systems: Types of Kerosene, Gasolene, Blau Gas, Acetylene, and
 Electric Lights.....*Mr. Fogle*
 2:00 —The Living Room and Its Appointments: Color Schemes; Furniture and
 Rugs; Library; Music.....*Miss Percival*
 7:30 —Heat, Light, and Ventilation for the Farm Home.....*Mr. Fogle*

FRIDAY

- 9:30-11:30—The Business of Housekeeping; System in Housework.....*Miss Percival*
 Methods of Fly Prevention. Helps in Cleaning: Vacuum Cleaner; Carpet
 Sweeper; Washing Machine; Ironing Machine.....*Mr. Fogle*
 2:00 —The Planning of Meals.....*Miss Percival*
 7:30 —The Household Power Plant.....*Mr. Fogle*



PART V
EXPERIMENT STATIONS AND OTHER
SCIENTIFIC BUREAUS



THE AGRICULTURAL EXPERIMENT STATION

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY

STAFF¹

EUGENE DAVENPORT, M.Agr., LL.D., *Director*

CYRIL GEORGE HOPKINS, Ph.D., *Vice-Director*

THOMAS JONATHAN BURRILL,² Ph.D., LL.D., *Professor of Botany, Emeritus*

STEPHEN ALFRED FORBES, Ph.D., *Consulting Entomologist*

HENRY LEWIS RIETZ, Ph.D., *Statistician*

ANNA CUSHMAN GLOVER, *Secretary*

FLORENCE E SMITH, *Editorial Assistant*

In Agronomy

CYRIL GEORGE HOPKINS, Ph.D., *Chief, Agronomy and Chemistry*

JEREMIAH GEORGE MOSIER, B.S., *Chief, Soil Physics*

LOUIE HENRIE SMITH, Ph.D., *Chief, Plant Breeding*

ROBERT STEWART, Ph.D., *Associate Chief, Soil Fertility*

WILLIAM LEONIDAS BURLISON, Ph.D., *Associate Chief, Crop Production*

AXEL FERDINAND GUSTAFSON, M.S., *Assistant Chief, Soil Physics*

ERNEST VAN ALSTINE, B.S., *Assistant Chief, Soils Laboratory*

JOSEPH PAUL AUMER, B.S., *Associate, Soil Analysis*

FREDERICK CHARLES BAUER, B.S., *Associate, Soil Fertility*

WALTER BYRON GERNERT, Ph.D., *Associate, Plant Breeding*

SIDNEY VIEL HOLT, B.S., *Associate, Soil Physics*

HENRY CLYDE WHEELER, B.S., *Associate, Soil Physics*

JOHN EZRA WHITCHURCH, B.S., *Associate, Soil Fertility*

ALBERT LEMUEL WHITING, Ph.D., *Associate, Soil Biology*

WILBUR ROY LEIGHTY, B.S., *First Assistant, Soil Analysis*

FRANK WILLIAM GARRETT, B.S., *First Assistant, Soil Fertility*

FREDERICK MARTIN WILLIAM WASCHER, B.S., *First Assistant Soil Physics*

FORREST ADDISON FISHER, B.S., *First Assistant, Soil Physics*

ORR MILTON ALLYN,³ B.S., *First Assistant, Crop Production*

EDWARD HARVEY WALWORTH, B.S., *First Assistant, Crop Production*

HOWARD JOHN SNIDER, B.S., *First Assistant, Soil Fertility*

WARREN RIPPEY SCHOONOVER, B.S., *First Assistant, Soil Biology*

HARRY CHARLES GILKERSON, B.S., *First Assistant, Soil Fertility*

GEORGE EDWARD GENTLE, B.S., *First Assistant, Soil Physics*

HARRISON FRED THEODORE FAHRNKOPF, B.S., *First Assistant, Soil Fertility*

ORLAND I ELLIS, B.S., *First Assistant, Soil Physics*

ROBERT WILLIAM DICKENSON, B.S., *First Assistant, Soil Physics*

CLINTON B CLEVINGER, M.S., *First Assistant, Soil Analysis*

FRANK ARCHIBALD WYATT, Ph.D., *First Assistant, Soil Fertility*

ARTHUR MAXWELL BRUNSON, B.S., *First Assistant, Plant Breeding*

EDWARD FRITCHOFF TORGERSON, B.S., *Assistant, Soil Physics*

¹The Station Staff includes only those scientific workers who have been recommended by the President and appointed by the Board of Trustees.

²Deceased April 14, 1916.

³Resigned.

HENRY AUGUST DE WERFF, B.S., *Assistant, Soil Physics*
 ALFRED THORPE MORISON, B.S., *Assistant, Crop Production*
 WASHINGTON IRVING BROCKSON, M.S., *Assistant, Crop Production*
 CLYDE MAURICE LINSLEY, B.S., *Assistant, Soil Fertility*
 EVERETT E GLICK, B.S., *Assistant, Soil Fertility*
 CHARLES THURMAN HUFFORD, B.S., *Assistant, Soil Physics*

In Animal Husbandry

HERBERT WINDSOR MUMFORD, B.S., *Chief, Animal Husbandry*
 HARRY SANDS GRINDLEY, D.Sc., *Chief, Animal Nutrition*
 WALTER CASTELLA COFFEY, M.S., *Chief, Sheep Husbandry*
 HENRY PERLY RUSK, M.S., *Assistant Chief, Cattle Husbandry*
 JAMES LLOYD EDMONDS, B.S., *Assistant Chief, Horse Husbandry*
 JOHN A DETLEFSEN, D.Sc., *Assistant Chief, Genetics*
 WALTER FREDERICK HANDSCHIN, B.S., *Assistant Chief, Farm Organization and Management*
 SLEETER BULL, M.S., *Associate, Animal Nutrition*
 HAROLD HANSON MITCHELL, Ph.D., *Associate, Animal Nutrition*
 WILLIAM HERSCHEL SMITH, M.S., *Associate, Animal Husbandry Extension*
 ELMER ROBERTS, B.S., *First Assistant, Genetics*
 WILBUR JEROME CARMICHAEL, M.S., *First Assistant, Animal Husbandry*
 CHARLES IVAN NEWLIN, M.S., *First Assistant, Animal Husbandry*
 JAMES BURTON ANDREWS, B.S., *First Assistant, Animal Husbandry*
 ROSCOE RAYMOND SNAPP, B.S., *First Assistant, Animal Husbandry*
 CLAUDE HARPER, B.S., *Assistant, Animal Husbandry*
 JAMES WILBUR WHISENAND, M.S., *Assistant, Animal Husbandry*
 MARY HELEN KEITH, B.S., A.M., *Assistant, Animal Nutrition*
 EARL KIRKWOOD AUGUSTUS, B.S., *Assistant, Animal Husbandry*
 ROY HAROLD WILCOX, B.S., *Assistant, Animal Husbandry*
 MAYNARD ELMER SLATER, B.S., *Assistant, Animal Nutrition*
 JOHN BENJAMIN RICE, B.S., *Assistant, Animal Husbandry*
 LAWRENCE EMERSON THORNE, B.S., *Assistant, Agricultural Statistics and Genetics*
 WILLIAM GARFIELD KAMMLADE, B.S., *Assistant, Animal Husbandry*
 JOHN CARL ROSS,¹ Ph.D., *Assistant, Animal Nutrition*
 HENRY CARL ECKSTEIN, B.S., *Assistant, Animal Nutrition*

In Dairy Husbandry

HARRY ALEXIS HARDING, Ph.D., *Chief, Dairy Bacteriology*
 NELSON WILLIAM HEPBURN, M.S., *Assistant Chief, Dairy Manufactures*
 MARTIN JOHN PRUCHA, Ph.D., *Assistant Chief, Dairy Bacteriology*
 RAY STILLMAN HULCE, M.S., *Associate, Milk Production*
 EDWARD FREDERICK KOHMANN, Ph.D., *Associate, Dairy Chemistry*
 FRANK ASHMORE PEARSON, B.S.A., *First Assistant, Dairy Husbandry*
 HARRY MONTGOMERY WEETER, A.B., *Assistant, Dairy Husbandry*
 WILLIAM BARBOUR NEVENS, B.S., *Assistant, Dairy Husbandry*
 FRANK TURNER, B.S., *Assistant, Dairy Husbandry*
 PAUL WILLIAM ALLEN, M.S., *First Assistant, Dairy Bacteriology*
 HAROLD KIRK RULISON, B.S., *Assistant, Dairy Husbandry*
 WILLIAM HAROLD CHAMBERS, B.S., *Assistant, Dairy Bacteriology*
 LEIGHTON J TRUE, B.S., *Assistant, Dairy Manufactures*
 CHRIS SIMEON RHODE, B.S., *Assistant, Dairy Husbandry*
 RUSSELL STARKEY BRACEWELL, A.B., *Assistant, Dairy Chemistry*

¹Resigned, November 1, 1916

In Horticulture

JOSEPH CULLEN BLAIR, M.S., *Chief, Horticulture*
 JOHN WILLIAM LLOYD,¹ M.S., *Chief, Olericulture*
 CHARLES SPENCER CRANDALL, M.S., *Chief, Plant Breeding*
 HERMAN BERNARD DORNER, M.S., *Assistant Chief, Floriculture*
 BETHEL STEWART PICKETT, M.S., *Assistant Chief, Pomology*
 ERNEST WINFIELD BAILEY, M.S., *Assistant Chief, Plant Breeding*
 WARREN ALBERT RUTH, A.M., *Associate, Horticultural Chemistry*
 CHARLES ELMER DURST, M.S., *Associate, Olericulture*
 SIMEON JAMES BOLE, A.M., *Associate, Pomology*
 FRED WEAVER MUNCIE, Ph.D., *Associate, Floricultural Chemistry*
 ALFRED JOSEPH GUNDERSON, B.S., *First Assistant, Pomology*
 WILLIAM SANFORD BROCK, B.S., A.B., *First Assistant, Pomology*
 DUANE TAYLOR ENGLIS, Ph.D., *First Assistant, Floricultural Chemistry*
 ERNEST MICHAEL RUDOLPH LAMKEY, Ph.D., *First Assistant, Floricultural Pathology*
 JAMES HUTCHINSON, *Assistant, Floriculture*
 HOWARD DEXTER BROWN, B.S., *Assistant, Olericulture*
 AUGUST GEORGE HECHT, B.S., *Assistant, Floriculture*
 EDWARD GEORGE LAUTERBACH, B.S., *Assistant, Floricultural Pathology*
 HOWARD RUSSEL STANFORD, B.S., *Assistant, Plant Breeding*
 JULIA ALBERTA HARPER, A.B., *Editorial Assistant*

By an act approved March 2, 1887, the national government appropriated \$15,000 a year to each state for the purpose of establishing and maintaining, in connection with the colleges founded upon the congressional act of 1862, agricultural experiment stations, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." Under this provision the *Agricultural Experiment Station of the University of Illinois* was founded in 1888 and placed under the direction of the Trustees of the University; a part of the University farm, with buildings, was assigned for its use.

The federal grant has since been increased to \$30,000 a year. This is supplemented by state appropriations which make an aggregate fund of nearly a quarter of a million dollars devoted wholly to research in agriculture.

Investigations are conducted in the growing and marketing of orchard fruits, the methods of production of meats and of dairy goods, the principles of animal breeding and of nutrition, and the improvement of the economic production of crops. All the principal types of soil of the State are being studied in the laboratory under glass and in the field. A soil survey is in progress which when finished will map and describe the soil of every farm of the State down to an area of ten acres. Between forty and fifty fields and orchards are operated in various portions of the State for the study of local problems, and assistants are constantly on the road to conduct experiments or to give instruction to producer or consumer. The results of investigation are published in bulletins, which are issued in editions of 40,000 and distributed free of charge.

Much of this work is of interest to students, especially of graduate grade, and it is freely available for this purpose, so far as is consistent with the interests of the Station.

¹Absent on leave.

THE ENGINEERING EXPERIMENT STATION

EDMUND JAMES JAMES, Ph.D., LL.D., PRESIDENT

STAFF

WILLIAM FREEMAN MYRICK GOSS, M.S., D.Eng., *Director*

CLARENCE STANLEY SALE, B.S., *Assistant to the Director*

THE HEADS OF THE DEPARTMENTS OF THE COLLEGE OF ENGINEERING

Special Investigators

HERBERT FISHER MOORE, M.M.E., *Research Professor of Engineering Materials in the Department of Theoretical and Applied Mechanics*

SAMUEL WILSON PARR, M.S., *Professor of Applied Chemistry in the Department of Chemistry*

WILLIS APPLEFORD SLATER, M.S., C.E., *Research Assistant Professor of Applied Mechanics in the Department of Theoretical and Applied Mechanics*

CLINTON MASON YOUNG, B.S., E.M., *Assistant Professor of Mining Research in the Department of Mining Engineering*

ALONZO PLUMSTED KRATZ, M.S., *Research Associate in the Department of Mechanical Engineering*

HARRISON FREDERICK GONNERMAN, M.S., *Research Assistant in the Department of Theoretical and Applied Mechanics*

LEROY ALONZO WILSON, M.E., M.M.E., *Research Assistant in the Department of Mechanical Engineering*

OTTO STERNOFF BEYER, Jr., M.E., *Research Assistant in the Department of Railway Engineering*

HAROLD HOUGHTON DUNN, M.S., *Research Assistant in the Department of Railway Engineering*

WALTER ARTHUR GATWARD, M.S., *Research Assistant in the Department of Electrical Engineering*

Research Fellows

HARRY RHEINHARDT FRITZ, E.E., *Electrical Engineering*

LOUIS J LARSON, B.S., C.E., *Theoretical and Applied Mechanics*

BENITO RENE ORDONEZ, B.S., *Railway Engineering*

STEFAN FUJITA TANABE, B.S., M.S., *Physics*

RICHARD LAURENCE TEMPLIN, B.S., *Theoretical and Applied Mechanics*

CAMILLO WEISS, Graduate of Kaiserl. Koenigl. Technische Hochschule, Vienna, *Civil Engineering*

ERNEST EDWARD CHARLTON, B.A., M.S., *Chemistry*

RAY STUART QUICK, B.S., *Electrical Engineering*

BERNARD PEPINSKY, C.E., *Theoretical and Applied Mechanics*

EDWARD ALEXANDER ROBERTS, B.S., *Railway Engineering*

HAROLD PARSONS VAIL, B.S., *Mechanical Engineering*

FREDERIC PAUL STRAUCH, B.S., *Mechanical Engineering*

The Engineering Experiment Station was established by action of the Board of Trustees, December 8, 1903. Its purposes are the stimulation and elevation

of engineering education, and the study of problems of special importance to professional engineers, and to the manufacturing, railway, mining, and industrial interests of the State and the country.

The control of the Station is vested in the heads of the several departments of the College of Engineering. These constitute the Station Staff, and, with the Director, determine the character and extent of the investigations to be undertaken.

Up to the present time ninety bulletins of value to engineering science have been published. The experiments have related chiefly to tests of high-speed tool steels; the resistance of tubes to collapse; the holding power of railroad spikes; the effect of scale on heat transmission; roof trusses; base and bearing plates in columns and beams; stresses in chain links; extensions of the Dewey decimal system of classification; tests of electric lamps; lighting country homes by private electric plants; street lighting; high steam pressures in locomotive service; rate of formation of carbon monoxide in gas producers; fuel tests; the weathering of coal and the spontaneous combustion of coal; thermal conductivity of fireclay; heat transmissions; freight train resistance; tests of a suction gas producer; tests of concrete; reinforced concrete beams and columns; tests of cast-iron and reinforced concrete culvert pipe; tests of brick columns and terra cotta block columns; tests of timber beams; tests of built-up columns under load; tests to determine the resistance to flow through locomotive water columns; tests of nickel-steel riveted joints; strength of rolled zinc; inductance of coils; mechanical stresses in transmission lines; starting currents of transformers; superheated steam in locomotive service; a new analysis of the cylinder performance of reciprocating engines; effects of cold weather upon train resistance and tonnage rating; coking of coal at low temperatures; characteristics and limitations of the series transformer; electron theory of magnetism; entropy-temperature and transmission diagrams for air; tests of reinforced concrete buildings under load; the steam consumption of locomotive engines from indicator diagrams; properties of saturated and super-heated ammonia vapor; reinforced concrete wall footings and column footings; strength of I-beams in flexure; coal washing in Illinois; mortar-making qualities of Illinois sands; bond between concrete and steel; magnetic and other properties of electrolytic iron melted in vacuo; acoustics of auditoriums; tractive resistance of a 28-ton electric car; thermal properties of steam; analysis of coal with phenol as solvent; the effect of boron upon the magnetic and other properties of electrolytic iron melted in vacuo; a study of boiler losses; the coking of coal at low temperatures with special reference to the properties and composition of the products; wind stresses in the steel frames of office buildings; influence of temperature on the strength of concrete; laboratory tests of a consolidation locomotive; magnetic and other properties of iron-silicon alloys melted in vacuo; tests of reinforced concrete flat slab structures; strength and stiffness of steel under biaxial loading; the strength of I-beams and girders; correction of echoes in the Auditorium, University of Illinois; dry preparation of bituminous coal at Illinois mines; specific gravity studies of Illinois coals; and graphical methods in electric motor car calculations.

THE STATE LABORATORY OF NATURAL HISTORY

EDMUND JAMES JAMES, Ph.D., LL.D., PRESIDENT

STAFF

STEPHEN ALFRED FORBES, Ph.D., LL.D., *Director*

CHARLES ARTHUR HART, *Systematic Entomologist*

ROBERT EARL RICHARDSON, A.M., *Biologist in charge of Biological Station*

VICTOR ERNEST SHELFORD, Ph.D., *Biologist in charge of Research Laboratories*

MARY JANE SNYDER, *Secretary*

CHARLES EDWIN JANVRIN, Ph.B., B.L.S., *Librarian*

In 1885 the General Assembly passed an act transferring the *State Laboratory of Natural History* from the Illinois State Normal University to the University of Illinois. This laboratory was created for the purpose of making a natural history survey of the State, the results of which should be published in a series of bulletins and reports; and for the allied purpose of furnishing specimens illustrative of the flora and fauna of the State to the public schools and to the State museum. For these purposes direct appropriations are made by the legislature from session to session. Material of all classes has been collected in all parts of the State, field observations and experiments have been conducted, extending over many years, and fifteen volumes have been published in the form of bulletins and final reports.

The most important problem upon which the work of the survey is at present concentrated is the effect of drainage operations, sewage contaminations, and other results of industrial occupancy upon the general system of life in our principal rivers.

THE STATE ENTOMOLOGIST'S OFFICE

STAFF

STEPHEN ALFRED FORBES, Ph.D., LL.D., *State Entomologist*
CHARLES ARTHUR HART, *Systematic Entomologist*
WESLEY PILLSBURY FLINT, *Assistant for Central Illinois*
LINDLEY MALCOLM SMITH, B.S., *Assistant for Southern Illinois*
DAVID KENT MACMILLAN, B.S., *Assistant for Northern Illinois*
PRESSLEY ADAMS GLENN, A.M., *Chief Horticultural Inspector*
JOHN RUSSELL MALLOCH, *Illustrator and Custodian*

The work of the *State Entomologist's Office* has been done at the University of Illinois since January, 1885; by legislative enactment in 1899 it was permanently established at the University, the Trustees of which are required by that act to provide for the Entomologist and his assistants such office and laboratory rooms as may be necessary to the performance of their duties.

It is the duty of this officer to investigate all insects dangerous to any valuable property or dangerous to the public health, and to conduct experiments for the control of injury to persons or property by insects, publishing the results of his researches biennially in his official report. He is required also to inspect and certify annually all Illinois nurseries and all importations of nursery stock, and to maintain a general supervision of the horticultural property of the State with respect to its infestation by dangerous insects and its infection with contagious plant disease.

Twenty-nine reports have now been published by the Entomologist, fifteen of them since the transfer of his office to the University.

THE STATE WATER SURVEY

EDMUND JAMES JAMES, Ph.D., LL.D., PRESIDENT

STAFF

EDWARD BARTOW, Ph.D., *Director*
SAMUEL WILSON PARR, M.S., *Consulting Chemist*
ARTHUR NEWELL TALBOT, C.E., *Consulting Engineer*
GEORGE CONRAD HABERMEYER, B.S., *Engineer*
FLOYD WILLIAM MOHLMAN,¹ Ph.D., *Chemist and Bacteriologist*
HARRY FOSTER FERGUSON, B.S., *Assistant Engineer*
JOHN FRANCIS SCHNELLBACH, B.S., *Assistant Engineer*
ARTHUR NORTON BENNETT, M.S., *Assistant Chemist*
WILLIAM DURRELL HATFIELD, M.S., *Assistant Bacteriologist*
FRIEND LEE MICKLE, A.B., *Assistant Chemist*
MADELINE BIXBY, B.S., *Assistant Chemist*
EDMAN GREENFIELD, A.M., *Assistant Bacteriologist*
SIDNEY DALE KIRKPATRICK, B.S., *Assistant Chemist*
OTTO M SMITH, B.S., *Assistant Chemist*
HENRY RHODES LEE, M.S., *Summer Assistant, 1916*
PERCY WRIGHT OTT, *Summer Assistant, 1916*
WILBUR FRED KAMM, B.S., *Summer Assistant, 1916*

A chemical survey of the waters of the State was begun in the latter part of September, 1895. In 1897 the legislature authorized the continuance of the work and directed the Trustees of the University to establish a chemical and biological survey of the waters of the State. In 1911 the legislature made an increased appropriation and imposed additional duties on the State Water Survey, authorizing it to employ field men to inspect water supplies and watersheds, and to make, free of charge, sanitary examinations of water for citizens of Illinois. The Survey has collected data concerning the most of the water supplies and sewerage systems, and many watersheds, making chemical and bacteriological examinations to demonstrate the sanitary condition of water supplies and streams, and to determine standards of purity for drinking waters. The survey advises municipal authorities how best to obtain and conserve an adequate supply of pure water for domestic and manufacturing purposes. In 1915 a small appropriation was made for the establishment and maintenance of a sewage-experiment station.

The Survey is a division of the department of chemistry of the University of Illinois. Offices and special laboratories are equipped in the Chemistry Building for conducting the work.

¹Resigned.

THE STATE GEOLOGICAL SURVEY

COMMISSION

GOVERNOR FRANK O. LOWDEN, *Chairman*

PROFESSOR T. C. CHAMBERLIN, Ph.D., D.Sc., LL.D., *Vice-Chairman*

PRESIDENT EDMUND JANES JAMES, Ph.D., LL.D., *Secretary*

STAFF

FRANK WALBRIDGE DEWOLF, B.S., *Director*, Urbana

EDWARD BARTOW, Ph.D., *Consulting Chemist in Water Analysis*, University of Illinois, Urbana

ULYSSES SHERMAN GRANT, Ph.D., *Consulting Geologist in Lead and Zinc Studies*, Northwestern University, Evanston

SAMUEL WILSON PARR, M.S., *Consulting Chemist in Coal Investigations*, University of Illinois, Urbana

ROLLIN D SALISBURY, A.M., LL.D., *Consulting Geologist in Preparation of Educational Series*, University of Chicago, Chicago

FRED HALL KAY, B.S., *Assistant State Geologist*, Urbana

THOMAS EDMUND SAVAGE, Ph.D., *Geologist*, University of Illinois, Urbana

STUART WELLER, Ph.D., *Geologist*, University of Chicago, Chicago

GILBERT H CADY, A.M., *Geologist*, Urbana

ALBERT D BROKAW, Ph.D., *Geologist*, University of Chicago, Chicago

STUART ST. CLAIR, M.S., *Geologist*, Urbana

HELEN JEANNE SKEWES, A.B., *Assistant Geologist*, Urbana

E WESLEY SHAW, B.S., *Assistant Geologist in Cooperative Surveys*, Urbana, Ill., and Washington, D. C.

CHARLES BUTTS, M.S., *Assistant Geologist in Cooperative Surveys*, Urbana, Ill., and Washington, D. C.

WILLIAM G GWYNN, *Engineering Draftsman*, Urbana

JUSTA M LINDGREN, A.M., *Chemist*, Urbana

GLENN S SMITH, B.S., *Geographer in charge of Topographical Surveys in Illinois*, Urbana, Ill., and Washington, D. C.

The Forty-fourth General Assembly passed an act, in force July 1, 1905, providing for the establishment at the University of Illinois of the *State Geological Survey*. The Survey is under the control of a Commission, of which the President of the University is an *ex officio* member.

The purpose of the Survey is primarily the study and exploration of the mineral resources of Illinois. Field parties are organized for the investigation of oil, clay, coal, stone, artesian water, cement materials, and road materials, and for general scientific investigations. The Survey is charged also with the duty of making a complete topographical and geological survey of the State. Topographical and geological surveys are now being carried on in cooperation with the United States Geological Survey. These will lead to the publication of a series of bulletins and maps, eventually covering the entire State.

The Forty-fifth General Assembly further charged the Commission with the duty of making surveys and studies of lands subject to overflow, with a view to

their reclamation. Work has been carried on in cooperation with the Rivers and Lakes Commission, the United States Geological Survey, and the United States Department of Agriculture, along the Sangamon, Kaskaskia, Big Muddy, Little Wabash, Embarrass, Spoon, Pecatonica, and Saline rivers. Reports have been issued on the Little Wabash, Kaskaskia, Spoon, and Embarrass.

The laboratory work is done in connection with various department laboratories of the University. The equipment includes a working library, maps, and a growing collection, illustrating the geological and the economical resources of the State. Thirty-five bulletins, a monograph, and a large number of maps have been published. Many temporary assistants besides the regular corps are employed each summer.

Under an agreement between the State Geological Survey and the Engineering Experiment Station on the one hand, and the United States Bureau of Mines on the other, a branch station has been located at Urbana for a cooperative investigation of the Illinois coal mining industry. The Forty-seventh General Assembly made appropriations to carry on the work for two years, and the Forty-eighth and Forty-ninth General Assemblies repeated the appropriations for equal periods. See page 420.

THE BOARD OF EXAMINERS IN ACCOUNTANCY

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT

BOARD OF EXAMINERS

JAMES HALL, C.P.A., *Chairman*, Chicago

CLARENCE MARTIN DELANY, A.B., C.P.A., *Secretary*, Chicago

NATHAN WILLIAM MACCHESNEY, A.B., LL.B., Chicago

UNIVERSITY COMMITTEE

DAVID KINLEY, Ph.D., LL.D., *Chairman*

CHARLES MAXWELL MCCONN, A.M., *Secretary*

EDWARD HARRIS DECKER, A.B., LL.B.

By a law passed in 1903 the State University is made an examining board of applicants for certificates as certified public accountants. To carry out the provisions of the law the Board of Trustees have appointed a board of three examiners to prepare, conduct, and grade examinations, and a University committee to conduct the routine work. Under the law one examination must be held each year in May, but examinations have been held also in November or December of each year in which there were a sufficient number of applicants. All the examinations thus far given have been held in the city of Chicago.

Applicants for the certificate of Certified Public Accountant are required to pass examinations in the theory of accounts, commercial law, auditing, and practical accounting.

The Illinois Society of Certified Public Accountants offers annually a gold medal and a silver medal to be awarded to the persons passing the C. P. A. examination with the highest total marking in all subjects and with the second highest total marking in all subjects respectively.

CO-OPERATIVE INVESTIGATION OF ILLINOIS COAL PROBLEMS

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT

STAFF

Engineering Experiment Station

WILLIAM FREEMAN MYRICK GOSS, M.S., D.Eng., *Director*

HARRY HARKNESS STOEK, B.S., E.M., *Professor of Mining Engineering*

CLINTON MASON YOUNG, B.S., E.M., *Assistant Professor of Mining Research*

SPECIAL MINING ENGINEERS AND FIELD SAMPLERS

State Geological Survey

FRANK WALBRIDGE DEWOLF, B.S., *Director*

FRED HALL KAY, B.S., *Assistant State Geologist*

GILBERT HAVEN CADY, A.B., M.S., *Geologist*

THOMAS EDMUND SAVAGE, M.S., Ph.D., *Geologist*

WALTER STEPHEN NELSON, *Engineer*

United States Bureau of Mines

VAN H MANNING, A.B., *Director*, Washington, D. C.

GEORGE S RICE, E.M., *Chief Mining Engineer*, Washington, D. C.

HOWARD IRA SMITH, B.S.(Min.), *District Mining Engineer*, Urbana, Ill.

JAMES RUSSELL FLEMING, E.M., *Assistant Mining Engineer*, Urbana, Ill.

FRANK K OVITZ, B.S., *Assistant Chemist*, Urbana, Ill.

The Engineering Experiment Station through the department of mining engineering of the University of Illinois, the State Geological Survey, and the United States Bureau of Mines are cooperating in the investigation of some of the problems connected with the mining of coal in the State of Illinois, under authority granted by the Forty-seventh General Assembly.

This cooperative work is constructive as well as statistical, based upon accurate data and taking account of all existing conditions, to enable the operators and miners of the State to produce coal more safely, more cheaply, and with less waste.

A staff of trained mining engineers, geologists, and chemists has been placed at the disposal of the coal industry of Illinois.

PART VI
LIST OF STUDENTS, ETC.
(1916—1917)



LIST OF STUDENTS, 1916-17

THE GRADUATE SCHOOL

Adler, Leon—Chemistry Work for B.S. completed, 1917		† St. Louis, Missouri
Akers, Miriam Cynthia—Scholar in Latin A.B. ¹ (Illinois College) 1916		* † St. Louis, Missouri
Albrecht, William Albert—Agronomy A.B., B.S., M.S., 1911, 1914, 1915	SS:	Flanagan
Alexander, John Alva—Education A.B., 1916	SS	Amorita, Oklahoma
Allen, Louis—French A.B., A.M., 1913, 1915		* † Clinton
Allen, Lucille Marie—History A.B. (Miami Univ.) 1916		* † Urbana
Allen, Otho William—French A.B., A.M., 1915, 1916		* † Clinton
Allen, Paul William—Dairy Bacteriology B.S. (St. Lawrence Univ.) 1910 M.S. (Cornell Univ.) 1914	SS	* † Urbana
Allison, Worth Arthur—Scholar in Animal Husbandry B.S., A.B., 1916		* † Charleston
d'Amato, Orlando—Romance Languages A.B. (Columbia Univ.) 1915		* † Los Angeles, California
Amos, Douglas Jacques—Dairy Husbandry B.S., 1916		* † Cairo
Amsterdam, Harry—Philosophy A.B. (Lake Forest Coll.) 1915 A.M., 1916		* † Zeludok, Vilno, Russia
Anderson, Harry Warren—Botany A.M. (Washington Univ.) 1910	SS	* † Crawfordsville, Indiana
Andrews, Harry Lee—Zoology A.B., 1916	SS	Washburn
Andrews, James Burton—Animal Husbandry B.S., 1913		* † Urbana
Atwell, Clarence Allen—Electrical Engineering B.S. (Univ. of Nebraska) 1914		* † Urbana
Augustus, Earl Kirkwood—Animal Husbandry B.S., 1914		* Urbana
Austin, Miner Manley—Chemistry A.B. (Lawrence Coll.) 1916		* † Waterloo, Wisconsin
Babbitt, Harold Eaton—Municipal and Sanitary Engineering B.S. (Massachusetts Inst. of Tech.) 1911	SS	* † Urbana
Bach y Rita, Pedro—Spanish Master Superior (Superior Normal, Barcelona, Spain)	SS	* † Barcelona, Spain
Bagley, Glen David—Electrical Engineering B.S., M.S., 1912, 1913		Pittsburgh, Pennsylvania
Bailey, Ernest Winfield—Genetics B.S. (Massachusetts Agr. Coll.) 1908 M.S., 1909	SS	* † Worcester, Massachusetts
Baldwin, Francis Marsh—Zoology A.B., A.M. (Clark Coll.) 1906, 1907	SS	* † Champaign
Ballantine, Mary Frances—Sociology A.B. (Wellesley Coll.) 1914		* Springfield, Massachusetts
Ballew, Margaret Esther—English A.B. (Hedding Coll.) 1909 A.M., 1910		* † Lexington
Barnes, Mildred—English A.B. (Yassar Coll.) 1912		* † Lansing, Michigan
Barnes, Otis Avery—Chemistry B.S., 1916		* † Auburn
Bauer, Frederick Charles—Agronomy B.S., 1909		* † Champaign
Bayley, Paul Lavern—Experimental Physics A.B. (Univ. of Arkansas) 1913 A.M., 1914	SS	* † Ft. Smith, Arkansas
Beach, Amy Adaline—Latin A.B., 1914	SS	Antwerp, New York
Beach, Walter Spurgeon—Plant Pathology B.S. (Minnesota Coll. of Agr.) 1914 M.S. (Michigan Agr. Coll.) 1915	SS	* † Hutchinson, Minnesota

¹Degrees were conferred by the University of Illinois unless otherwise specified. Two degrees from the same institution are indicated thus: A.B., A.M., 1909, 1911.

²Attendance during the Summer Session of 1916 is indicated by SS; during the first and second semesters of 1916-17 by the asterisk (*) and the dagger (†) respectively in the columns next the home address.

*Candidate for professional degree in engineering.

Beattie, Harry James—Inorganic Analytical Chemistry A.B., A.M. (<i>Univ. of Denver</i>) 1914, 1915		* † <i>Denver, Colorado</i>
Beatty, Albert James—Education B.S. (<i>N. Illinois Normal School</i>) 1894 A.B. (<i>Knox Coll.</i>) 1900 A.M., 1915	SS	* † <i>Urbana</i>
Beck, Clyde Byron—English A.B. (<i>Earlham Coll.</i>) 1906 A.M., 1916		* † <i>Richmond, Indiana</i>
Bedient, Ethel Louise—Scholar in Economics A.B. (<i>Albion Coll.</i>) 1916		* † <i>Albion, Michigan</i>
Beekley, John Sherman—Mathematics A.B. (<i>Miami Univ.</i>) 1915		* † <i>West Chester, Ohio</i>
Belting, Paul Everett—Education A.B., 1912	SS	<i>Illioopolis</i>
Bennett, Arthur Norton—Sanitary Chemistry B.S., M.S., 1907, 1915		* † <i>Lawrence, Michigan</i>
Bentley, Rufus Clarence—Education A.B., A.M. (<i>Univ. of Nebraska</i>) 1894, 1896		* † <i>Urbana</i>
Berninger, Harriett Josephine—Education A.B., 1915		* † <i>Mt. Carmel</i>
Biegler, Philip Sheridan—Electrical Engineering B.S. (<i>Univ. of Wisconsin</i>) 1905		* † <i>Urbana</i>
Bissell, Don Warren—Organic Chemistry B.S. (<i>New Hampshire Coll.</i>) 1914 M.S., 1916		* <i>Keene, New Hampshire</i>
Bixby, Madeleine—Chemistry B.S. (<i>Tufts Coll.</i>) 1916	SS	* † <i>North Andover, Massachusetts</i>
Black, Howard Benjamin—Education B.S. (<i>Baldwin Univ.</i>) 1911	SS	<i>Massillon, Ohio</i>
Bodfish, Elisabeth—Scholar in Zoology Ph.B. (<i>Brown Univ.</i>) 1914		* † <i>Palmer, Massachusetts</i>
Boehmer, Florence Elsie—Education A.B. (<i>Drury Coll.</i>) 1912	SS	† <i>Springfield, Missouri</i>
Bogart, Mrs. Stella—Italian A.B. (<i>Oberlin Coll.</i>) 1901		* <i>Urbana</i>
Bole, Simeon James—Horticulture A.B. (<i>Univ. of Michigan</i>) 1906 A.M., 1912		* † <i>Champaign</i>
Booth, Harry Tyler—Physics B.S. (<i>Carleton Coll.</i>) 1915 M.S., 1916		* † <i>Lake City, Minnesota</i>
Borden, Raymond Franklin—Mathematics Ph.D., A.M. (<i>Brown Univ.</i>) 1914, 1915		* † <i>Aquidneck, Rhode Island</i>
Boughton, Thomas Harris—Pathology M.S. (<i>Univ. of Chicago</i>) 1904 M.D. (<i>Rush Medical Coll.</i>) 1906	SS	* † <i>Evanston</i>
Boyle, Cecil Wayne—Chemistry A.B. (<i>Purdue Univ.</i>) 1910	SS	* † <i>Evanston</i>
Bracewell, Ray Herman—Education B.S. (<i>Illinois Coll.</i>) 1915	SS	<i>Lerna</i>
Bracewell, Russell Starkey—Chemistry A.B. (<i>Univ. of Kansas</i>) 1916		* † <i>Urbana</i>
Braham, Joseph Marvin—Physical Chemistry B.S. (<i>Univ. of Idaho</i>) 1914 M.S., 1915		* † <i>Spokane, Washington</i>
Braley, Silas Alonzo—Fellow in Analytical Inorganic Chemistry A.B. (<i>Morningside Coll.</i>) 1913 M.S., 1915	SS	* † <i>Urbana</i>
Brede, Elfrieda—Latin A.B. (<i>McKendree Coll.</i>) 1912	SS	<i>Collinsville</i>
Bredvold, Louis Ignatius—English Literature A.B., A.M. (<i>Univ. of Minnesota</i>) 1909, 1910		* † <i>Urbana</i>
Brewbaker, Charles Earl—Education A.B. (<i>McKendree Coll.</i>) 1914	SS	<i>Allamont</i>
Brock, William Sanford—Horticulture A.B. (<i>Waynesville Coll.</i>) 1910 B.S., 1915		* † <i>Urbana</i>
Brockson, Washington Irving—Agronomy B.S. (<i>Delaware State Coll., Newark</i>) 1915 M.S. (<i>Iowa State Coll.</i>) 1916		* † <i>Middletown, Delaware</i>
Brooks, Frances—Economics A.B., 1914		† <i>Urbana</i>
Brown, Howard Dexter—Horticulture B.S., 1914	SS	* † <i>Urbana</i>
Brown, Hugh Alexander—Electrical Engineering B.S., 1911		<i>Fayetteville, Arkansas</i>
Brown, John Bernis—Organic Analysis B.S., 1915		* † <i>Rock Falls</i>
Brown, Pembroke Holcomb—Economics A.B., 1915		* † <i>Champaign</i>
Brunson, Arthur Maxwell—Agronomy B.S., 1913		* † <i>Champaign</i>

¹In Graduate Courses in Medical Sciences, offered in Chicago, Summer Session, 1916.

²Candidate for professional degree in engineering.

Brush, Elizabeth Parnham—History A.B. (<i>Smith Coll.</i>) 1909 A.M., 1912		* † Boulder, Colorado
Bryant, William Thoreau—Industrial Chemistry B.S. (<i>Texas A. & M. Coll.</i>) 1911		* † Bryan, Texas
Buck, Alonzo Morris—Electrical Engineering M.E. (<i>Sibley Coll.</i>) 1904		Urbana
Bunting, Herbert Robins—Chemistry A.B., B.S. (<i>Univ. of Nebraska</i>) 1914, 1916		* † Lincoln, Nebraska
Burlison, William Leonidas—Botany B.S. (<i>Oklahoma Agricultural and Mechanical College</i>) 1905 M.S., Ph.D., 1908, 1915		† Champaign
Butzow, Emma Bertha—German A.B., 1914	SS	* † Wellington
Callen, Alfred Copeland—Mining Engineering B.S., M.S. (<i>Lehigh Univ.</i>) 1909, 1911		* † Urbana
Carroll, Daniel Bernard—Political Science A.B., 1915	SS	Pittsfield
Castle, Russell D V—Economics A.B., 1916		* † Urbana
Chaddeydon, Hazel Mildred—English A.B. (<i>Hedding College</i>) 1912		* † Adair
Chambers, William Harold—Dairy Bacteriology B.S., 1915	SS	* † Evanston
Chandler, Edward Marion Augustus—Fellow in Organic Chemistry A.B. (<i>Howard Univ.</i>) 1913 A.M. (<i>Clark Univ.</i>) 1914		* † Champaign
Chang, Hung Lieh—Political Science A.B. (<i>Baldwin-Wallace Coll.</i>) 1916		* † Honan, China
Charlton, Ernest Edward—Fellow in Industrial Chemistry A.B. (<i>Grinnell Coll.</i>) 1913 M.S., 1915	SS	* † Cherokee, Iowa
Checkley, Joseph Harvey—Economics B.S., 1913		* † Urbana
Chen, Lan Sung—Transportation A.B., 1916	SS	* Pekin, China
Chen, Queh King—Political Science		* † Honan, China
Childs, Harold Farnsworth—English Literature A.B., A.M., (<i>Ohio State Univ.</i>) 1913		* † Columbus, Ohio
Christie, Jesse Roy—Zoology B.S. (<i>Kentucky State Univ.</i>) 1914		* † Manchester, New Hampshire
Clayberg, Harold Dudley—Fellow in Botany A.B., 1913, M.S. (<i>Univ. of Chicago</i>) 1914		* † Oak Park
Clevenger, Clinton B—Agronomy B.S., M.S. (<i>Ohio State Univ.</i>) 1912, 1913		* Fletcher, Ohio
Clippinger, Frank Warren—Scholar in English A.B. (<i>Wabash College</i>) 1916		* † Indianapolis, Indiana
Colby, Arthur Samuel—Botany B.S. (<i>New Hampshire Coll.</i>) 1911 M.S., 1915	SS	* † Tilton, New Hampshire
Collings, Gilbert Hooper—Fellow in Agronomy B.S. (<i>Virginia Poly. Inst.</i>) 1915	SS	* † Creme, Virginia
Collins, Ray Arthur—Electrical Engineering B.S., 1909		Chicago
Cooke, Delmar Gross—Fellow in English A.B., A.M., 1912, 1915		* † Piper City
Cooley, Verna—History A.B. (<i>Knox Coll.</i>) 1913		* † Toulon
Cooper, Arthur Reuben—Honorary Fellow in Zoology A.B. (<i>Victoria Coll., Toronto Univ.</i>) 1910 A.M. (<i>Univ. Coll., Toronto Univ.</i>) 1911		* † Ontario, Canada
Copley, Beatrice Virginia—English A.B., 1915	SS	* † Joliet
Cordell, Vail—Education A.B., 1916	SS	Macomb
Corzine, Bruce Herbert—Education A. B., 1916	SS	Charleston
Cox, Edward Hill—Fellow in Physiological Chemistry B.S., M.S. (<i>Univ. of Louisville</i>) 1914, 1916		* † Richmond, Indiana
Crawford, Henry Gordon MacGregor—Scholar in Entomology B.S. (<i>Toronto Univ.</i>) 1915		* † Ontario, Canada
Croan, Melvin—Education A.B. (<i>Univ. of Kansas</i>) 1913	SS	Kincaid, Kansas
Croll, Hilda Marion—Scholar in Household Science A.B., 1916		* † Beardstown
Crooker, Sylvan Jay—Fellow in Physics B.S. (<i>Carleton Coll.</i>) 1914 M.S., 1915		* † Fairmont, Minnesota
Crooks, Harold Fordyce—Geology A.B., 1916		* † Oak Park
Cruzan, Myrtle Amy—English A.B., 1914		* † Mattoon

¹Candidate for professional degree in engineering.

Culver, Harry—Pathology and Bacteriology B.S. (<i>Univ. of Wisconsin</i>) 1910 M.D. (<i>Rush Medical Coll.</i>) 1913		* † Appleton, Wisconsin
Curtis, Harry Pennybacker—Agronomy B.S. (<i>Ohio State Univ.</i>) 1915		* Little Hocking, Ohio
Cuthbert, Dorothy Lucile—Scholar in Latin A.B., 1916		* † Gilsun, New Hampshire
Dalbey, Nora Elizabeth—Botany A.B., A.M. (<i>Univ. of Kansas</i>) 1913, 1914		* † Sterling, Kansas
Davis, John William—Electrical Engineering M. E. (<i>Cornell Univ.</i>) 1910		* † Petersburg, Virginia
Davis, Roy Lefevre—Education A.B., A.M. (<i>Illinois Wesleyan Univ.</i>) 1915, 1916	SS	* † Poicmac
Davis, Samuel Sylvester—Agronomy B.S., 1915		* † Newport, Indiana
Dawson, Eric Allen—French B.S., A.M. (<i>Univ. of Mississippi</i>) 1908, 1914		* † Okolona, Mississippi
Dean, Ralph Hippie—Scholar in Chemistry A.B. (<i>Lake Forest Coll.</i>) 1916		* † Somonauk
Dent, John Adlum—Mechanical Engineering M.E. (<i>Lehigh Univ.</i>) 1905		† Champaign
DeTurk, Jeremiah Amos—Mechanical Engineering B.S. (<i>Pennsylvania State Coll.</i>) 1912		* † Reading, Pennsylvania
Dickenson, Robert William—Agronomy B. S., 1912		* † Urbana
Dickey, Lloyd Blackwell—Zoology A.B., (<i>Fargo Coll.</i>) 1915		* † Esmond, North Dakota
Doane, Alice Mary—Scholar in English A.B. (<i>Earlham Coll.</i>) 1914		* † New York City, New York
Dodds, Lois Ellen—French A.B., 1916		† Champaign
Dolkart, Leo—Electrical Engineering B.S., 1903		Moline
Doisy, Edward Adelbert—Physiological Chemistry A.B., M.S., 1914, 1916	SS	Champaign
Dotterer, John Ezra—Scholar in Mathematics A.B. (<i>Blue Ridge Coll.</i>) 1912		* † New Windsor, Indiana
Doty, George Lewis—Scholar in Romance Languages A.B. (<i>Albion Coll.</i>) 1916		* † Monroe, Michigan
Douglas, Mrs. Dorothy W—Sociology A.B. (<i>Bryn Mawr Coll.</i>) 1912 A.M. (<i>Columbia Univ.</i>) 1915		* † Urbana
Dreesen, William Henry—Economics A.B. (<i>Greenville Coll.</i>) 1907 A.M., 1916		* † Urbana
DuBois, Henry Mathusalem—Paleontology A.B., A.M. (<i>Indiana Univ.</i>) 1913, 1914		* † Rochester, Indiana
DuFrain, Frank James—Education A.B., 1916	SS	Momence
Dunbar, Louise Burnham—Scholar in History A.B. (<i>Mt. Holyoke Coll.</i>) 1916		* † White River Junction, Vermont
Dunn, Max Shaw—Chemistry A.B. (<i>Simpson Coll.</i>) 1916		* † Milo, Iowa
Durst, Charles Elmer—Genetics B.S., M.S., 1909, 1912	SS	* † Urbana
Dyar, Herbert Lee—Education A.B. (<i>Eureka Coll.</i>) 1905	SS	Low Point
Eckstein, Henry Charles—Chemistry A.B., 1915	SS	* Peoria
Edwards, Forrest Glenn—Education A.B. (<i>Lombard Coll.</i>) 1907		* † Princeville
Edwards, M Reece—Agronomy B.S., M.S., 1916	SS	Urbana
Edwards, Robert Dean—Dairy Husbandry B.S. (<i>Cornell Univ.</i>) 1915		* Ithaca, New York
Ellis, Harry Delmar—Education A.B. (<i>Univ. of Michigan</i>) 1909	SS	Dundee, New York
Enger, Melvin Lorenus—Theoretical and Applied Mechanics B.S., C.E., 1906, 1916	SS	* † Urbana
Engle, Robert Henry—Animal Husbandry Work for B.S. completed, 1917		* † Freeport
Ensign, Newton Edward—Theoretical and Applied Mechanics A.B. (<i>McKendree Coll.</i>) 1905 A.B. (<i>Oxford Univ.</i>) 1908 B.S., 1911	SS	* † Urbana
Fahnestock, Rhoda—Scholar in Household Science B.S. (<i>Rockford Coll.</i>) 1916		* † Watertown, South Dakota
Falls, Frederick Howard—Pathology B.S. (<i>Univ. of Chicago</i>) 1908 M.D. (<i>Rush Medical Coll.</i>) 1910 M.S., 1916	SS	* † Chicago
Fanning, Ralph Stanlee—Architecture B.Arch. (<i>Cornell Univ.</i>) 1912		* † Riverhead, New York

¹Candidate for professional degree in engineering.

²In Graduate Courses in Medical Sciences, offered in Chicago, Summer Session, 1916.

Faust, Ernest Carroll—Fellow in Zoology A.B. (<i>Oberlin Coll.</i>) 1912 A.M., 1914		* † Carthage, Missouri
Fazel, Charles Stever—Physics A.B. (<i>Fairmount Coll.</i>) 1914 A.M., 1915	SS	* † Wichita, Kansas
Feng, Kaimin Kay—Civil Engineering B.S., M.S., 1915, 1916		* Peilui, Kwangsi, China
Ferguson, Constance Wilberta ¹ —Scholar in French A.B. (<i>Illinois Wesleyan Univ.</i>) 1916		* Normal
Fishman, Alvin Texas—Scholar in Genetics B.S., 1916		* † Bosky Dell
Fitz-Gerald, Mrs. Leora Almita—Spanish Literature A.B., 1916		* † Champaign
Fleming, Denna Frank—Political Science A.B., 1916	SS	Paris
Flowers, Roy Warner ² —Architectural Engineering B.S., 1906		Gary, Indiana
Footitt, Frank F—Chemistry A.B. (<i>Albion Coll.</i>) 1914 M.S., 1916	SS	* † St. Johns, Michigan
Ford, Jay Thomas—Individual Chemistry A.B. (<i>DePauw Univ.</i>) 1914 M.S., 1916		* † Pendleton, Indiana
Foster, Lucy Ray—English Ph.B. (<i>Syracuse Univ.</i>) 1908		* † Champaign
Francis, Helen Elizabeth—History A.B., 1916		* † Wyoming
Frank, Edwin Diederich August—Mechanical Engineering B.S. (<i>Massachusetts Inst. of Tech.</i>) 1906		* † Milwaukee, Wisconsin
Frary, Hobart Dickinson—Fellow in Mathematics M.E., M.S. (<i>Univ. of Minnesota</i>) 1908, 1909	SS	* † Urbana
French, Beals Ensign Litchfield—Education B.S. (<i>Alfred Univ.</i>) 1913	SS	Ellicottville, New York
French, Herbert Ephraim—Organic Chemistry A.B. (<i>Morningside Coll.</i>) 1915		* † Sioux City, Iowa
Fritz, Harry Rheinhardt—Fellow in Electrical Engineering C.E. (<i>Univ. of Texas</i>) 1914		* † Dallas, Texas
Fullenwider, Elizabeth Leah—Scholar in English A.B. (<i>James Millikin Univ.</i>) 1916		* † Mechanicsburg
Fulton, Edward Irving—English A.B. (<i>Central Univ. of Kentucky</i>) 1916	SS	Anchorage, Kentucky
Gantz, Richard Alonzo—Botany A.B. (<i>Michigan University</i>) 1912		* † Urbana
Gatward, Walter Arthur—Electrical Engineering B.S. (<i>Washington State Coll.</i>) 1913 M.S., 1916		* † Urbana
Gauger, Marguerite Elston—Scholar in Household Science A.B., 1913		* † Champaign
Gaynor, Elizabeth Webb—History A.B. (<i>Univ. of Wisconsin</i>) 1907	SS	Grand Rapids, Wisconsin
Geiling, Eugene Maximilian Karl—Animal Nutrition A.B. (<i>Univ. of Cape of Good Hope</i>) 1911 M.S., 1915	SS	* † Vryberg, South Africa
Geyer, Denton Loring—Education A.B., A.M. (<i>Univ. of Wisconsin</i>) 1910, 1911 Ph.D., 1914	SS	Madison, Wisconsin
Godeke, Harry Frederick—Mechanical Engineering B.S., 1905		* † Urbana
Godlove, Isaac Hahn—Organic Chemistry B.S., A.M. (<i>Washington Univ.</i>) 1914, 1915		* † St. Louis, Missouri
Goldman, Marcus Selden—Scholar in English A.B. (<i>Miami Univ.</i>) 1916		* † Middletown, Ohio
Goldsmith, Margaret Lola—Scholar in German A.B. (<i>Illinois Woman's Coll.</i>) 1916		* † New York, New York
Green, Bessie Rose—Zoology A.B., A.M., 1907, 1910		* † Ivesdale
Green, Charles Francis—Mathematics A.B., A.M. (<i>Univ. of Kansas</i>) 1914, 1915		* † Holton, Kansas
Greenfield, Edman—Chemistry A.B. (<i>Univ. of Kansas</i>) 1914 A.M., 1916		* † Lawrence, Kansas
Griffith, Coleman Roberts—Psychology A.B. (<i>Greenville Coll.</i>) 1915		* † Greenville
Grimes, Ruby Mabel—Mathematics A.B. (<i>Yankton Coll.</i>) 1911 A.M., 1913		* † Rapid City, South Dakota
Gross, Alfred William—Education Ph.B. (<i>North Western Coll.</i>) 1909	SS	* † Urbana
Gross, Cecil Robert—Bacteriology B.S. (<i>Cornell Univ.</i>) 1915		* † Ithaca, New York

¹Resigned, Jan. 31, 1917.²Candidate for professional degree in engineering.

Gulick, Edward Everett—Education B.L., 1892	SS	Champaign
Gulley, Lawrence Richard ¹ —Mechanical Engineering B.S., M.S., 1910, 1911		Urbana
Gunderson, Alfred Joseph—Pomology B.S., 1911	* †	Urbana
Guslei, Gilbert—Animal Husbandry B.S. (Ohio State Univ.) 1912	SS * †	Urbana
Gutling, Leo Arthur—Electrical Engineering B.S., 1911		Gatun, Canal Zone
Haessler, Carl Herman—Philosophy A.B. (Univ. of Wisconsin) 1911 A.B. (Oxford Univ.) 1914	* †	Urbana
Haessler, Clara Luise—Fellow in German A.B., A.M. (Univ. of Wisconsin) 1912, 1914	* †	Milwaukee, Wisconsin
Hahn, Fred Charles—Organic Chemistry B.S., 1916	SS	Springfield
Handschin, Walter Frederick—Animal Husbandry B.S., 1913	* †	Urbana
Hanna, Helen Irene—German A.B. (Central Coll.) 1916	* †	Epworth, Iowa
Hao, Tso Chang—Economics A.B., 1916	* †	Wuchinghsien, China
Harbison, Chester Clyde—Sociology A.B. (Univ. of Michigan) 1914	* †	Urbana
Harper, Claude Ligonier—Animal Husbandry B.S. (Purdue Univ.) 1914	* †	Urbana
Harris, James Waldo ¹ —Civil Engineering B.S., 1886		Beloit, Wisconsin
Hatfield, William Derrell—Chemistry B.S. (Illinois Coll.) 1914 M.S., 1916	SS * †	Urbana
Haw, Arthur Blaine—Chemistry B.S. (Harvard Univ.) 1913	* †	Ottumwa, Iowa
Hayes, Augustus Washington—Economics B.S., 1907	*	Pleasant Plains
Heath, Dwight Frederick—Scholar in Mathematics A.B., 1916	* †	Chicago
Hebbert, Clarence Mark—Mathematics B.S. (Otterbein Univ.) 1911 M.S., 1914	* †	Bloomdale, Ohio
Hecht, August George—Horticulture B.S., 1914	* †	Overland, Missouri
Hedges, Bertram Atkinson—Education A.B., 1916	*	Downing, Missouri
Heimbürger, Harry Virl—Zoology A.B. (DePaw Univ.) 1911 A.M., 1915	SS	Kewanna, Indiana
Henderson, James Bruce—Animal Husbandry B.S., M.S., 1916	†	Urbana
Henrich, Louis Joseph—Education B.S. (Kentucky State Univ.) 1913 M.S. (Iowa State Coll.) 1915	SS * †	Newport, Kentucky
Henry, Theodore Spafford—Education A.B. (Hedding Coll.) 1903 A.M., 1916	SS * †	Urbana
Hepburn, Nelson William—Dairy Manufacture B.S., M.S., 1907, 1910	*	Urbana
Hicks, John Frederick—Industrial Chemistry B.S. (Univ. of Pennsylvania) 1906 M.S., 1916	SS * †	Champaign
Higgins, George Marsh—Zoology B.S. (Knox Coll.) 1914 A.M., 1916	* †	Des Plaines Peoria
Hight, Eugene Stuart ¹ —Electrical Engineering M.S., 1911	* †	Grandview, Iowa
Higley, Ruth—Fellow in Zoology A.B. (Grinnell Coll.) 1909	*	Champaign
Hill, Charles Francis—Physics A.B., A.M., 1914, 1916	* †	Chicago
Hill, Howard Rice—Zoology A.B. (Carroll Coll.) 1913 M.S., 1916	* †	Carthage
Hill, Robert McClaughey—Scholar in Chemistry B.S. (Carthage Coll.) 1915	* †	Batavia
Hobler, Mrs. Harriet Wells—History A.B. (Rockford Coll.) 1882	SS	Peoria
Hofacker, Olga Vera—English A.B., 1911	* †	Greenville
Hoffman, William Samuel—Sociology A.B. (Greenville Coll.) 1916	*	Grand Forks, North Dakota
Hofo, Jacob Arnold—Fellow in History A.B., A.M. (Univ. of North Dakota) 1913, 1914		

¹Candidate for professional degree in engineering.

Hohman, Elmo Paul—Scholar in History A.B., 1916		* † Nashville
Holbrook, Elmer Allen—Mining Engineering B.S. (<i>Mass. Inst. Tech.</i>) 1904 E.M., 1916	SS	* † Urbana
Hooper, Gertrude Mellen—Zoology A.B. (<i>Jackson Coll.</i>) 1915		* † Tufts College, Massachusetts
Hoskinson, Bruce Quin—Education A.B., 1916	SS	West York
Hormel, Olive Dean—English A.B., 1916		† Wichita, Kansas
Howell, Lloyd Brelsford—Chemistry A.B. (<i>Wabash Coll.</i>) 1909		* † Urbana
Hsu, Chuan-Ying—Economics A.B. (<i>Nanking Univ.</i>) 1905 A.M., 1915		* † Urbana
Huffer, Charles Morse—Scholar in Mathematics A.B. (<i>Albion Coll.</i>) 1916		* † Albion, Michigan
Hufferd, Ralph William—Organic Chemistry A.B. (<i>Washington Univ.</i>) 1915		* † St. Louis, Missouri
Hulce, Ray Stillman—Animal Husbandry B.S. (<i>Univ. of Wisconsin</i>) 1911 M.S., 1913		* † Urbana
Humphrey, Herbert Kay—Electrical Engineering B.S., 1911		Houston, Texas
Hunsaker, Andrew Franklin—Political Science A.B., A.M., 1909		† Rantoul
Hursh, Ralph Kent—Ceramic Engineering B.S., 1908	SS	Macomb
Hurst, Lawrence—History A.M. (<i>Wisconsin Univ.</i>) 1914		* Martinsville
Huston, Earl Albert—Horticulture B.S. (<i>Purdue Univ.</i>) 1916		* † Mishawaka, Indiana
Hyslop, William Henry—Experimental Physics A.B. (<i>Knox Coll.</i>) 1908 A.M., 1911		* † Urbana
Ireland, Washington Parker ¹ —Civil Engineering B.S., 1903		Galesburg
Jacobs, Jessie Marie—Mathematics A.B. (<i>McPherson Coll.</i>) 1914 A.M. (<i>Univ. of Kansas</i>) 1916		* McPherson, Kansas
James, Helen Dorcas—Scholar in English A.B. (<i>Univ. of New Mexico</i>) 1914		* † Las Cruces, New Mexico
Jennings, Walter Wilson—Fellow in History A.B., A.M., 1915, 1916		* † Champaign
Jewell, Minna Ernestine—Zoology A.B. (<i>Colorado Coll.</i>) 1914 A.M., 1915		* † Colorado Springs, Colorado
Jinguji, Genjiro—Electrical Engineering B.S., 1912		† Choshi, Japan
Johnson, Dorothea Pearl—Scholar in Latin A.B. (<i>McKendree Coll.</i>) 1915	SS	Belleville
Johnson, Leslie F—Agronomy B.S., (<i>Iowa State Coll.</i>) 1917		† Omaha, Nebraska
Jones, Easley Stephen—English A.B. (<i>Univ. of Colorado</i>) 1907 A.M. (<i>Harvard Univ.</i>) 1913		* † Boulder, Colorado
Jones, Lester Seaman—Education B.S. (<i>Northwestern Univ.</i>) 1905	SS	Oak Park
Jordan, Louis—Inorganic Chemistry A.B. (<i>Bates Coll.</i>) 1915		* † Portland, Maine
Jordan, Vera Elizabeth—English A.B. (<i>Drake Univ.</i>) 1909		* † Des Moines, Iowa
Jordan, William Gharrett—Chemistry A.B. (<i>Drake Univ.</i>) 1913		* † Des Moines, Iowa
Kamm, Wilbur Fred—Chemistry A.B., 1916	SS	Highland
Kammlade, William Garfield—Animal Husbandry B.S. (<i>Univ. of Wisconsin</i>) 1915	SS	* † Sparta, Wisconsin
Karr, Walter Gerald—Chemistry B.S. (<i>Alfred Univ.</i>) 1913 M.S., 1916		* † Almond, New York
Krarrer, Sebastian—Fellow in Physics A.B., A.M. (<i>Univ. of Washington</i>) 1911, 1913	SS	* † Seattle, Washington
Keen, Dora—Education A.B. (<i>Georgetown Coll.</i>) 1916		* † Georgetown, Kentucky
Keiser, Albert—Fellow in English Philology A.B. (<i>Wartburg Coll.</i>) 1911 A.M. (<i>Univ. of Montana</i>) 1915	SS	* † Sterling, Nebraska
Keith, Mary Helen—Animal Nutrition B.S. (<i>Mt. Holyoke Coll.</i>) 1894 A.M. (<i>Columbia Univ.</i>) 1904		* † Braintree, Massachusetts

¹Candidate for professional degree in engineering.

Keitoku, Sakae—Industrial Chemistry A.B., 1916		* † Fukushima, Japan
Kelso, Ruth—English A.B., A.M., 1908, 1909		* † Los Angeles, California
Kempton, Forrest Ellwood—Botany B.S. (Earlham Coll.) 1906 M.S. (Univ. of Wisconsin) 1913	SS	* † Centerville, Indiana
Kennedy, Josephine Wheaton—Physiology A.B. (Wheaton Coll.) 1912		* † Wheaton
Kennedy, Luther Eugene—Economic Geology A.B., A.M., 1915		* † Springfield
Kernall, Morris Johnson—Zoology A.B. (Univ. of North Dakota) 1906 A.M., 1914		* † Valley City, North Dakota
Kindred, James Ernest—Zoology A.B. (Tufts Coll.) 1914 A.M., 1915		* † Dorchester, Massachusetts
Kingman, Robert Hills—Zoology A.B. (Washburn Coll.) 1913		* † Topeka, Kansas
Kingsley, Mary Winship—History A.B., A.M. (Tufts Coll.) 1903, 1904		* † Urbana
Kirkpatrick, Harold H—Education A.B., 1897	SS	West Chicago
Kirkpatrick, Sidney Dale—Chemistry B.S., 1916		* † Urbana
Knight, Abner Richard—Electrical Engineering M.E. (Ohio State Univ.) 1909	SS	* † Champaign
Knight, Henry Granger—Chemistry A.B. (Univ. of Chicago) 1903 A.M. (Univ. of Washington) 1905	SS	Laramie, Wyoming
Knight, Paul Kenneth—Economics A.B., 1916		* † Urbana
Knudsen, Charles William—Chemistry B.S., 1913	SS	New Berlin
Koons, Guy J—Education A.B., 1912	SS	Murphysboro
Krafka, Joseph, Jr.—Zoology A.B., A.M. (Lake Forest Coll.) 1915		* † Ottumwa, Iowa
Kremers, Harry Cleveland—Inorganic Chemistry A.B. (Hope Coll.) 1913 M.S., 1915	SS	* † Urbana
Krieger, Augusta May—Education A.B., 1910	SS	Peoria
Kumano, Kichijiro—Education Graduate of Hiroshima Higher Normal Coll. 1908		* † Tokyo, Japan
Landis, Paul Nissley—English A.B., A.M. (Franklin & Marshall Coll.) 1913, 1915		* † Womelsdorf, Pennsylvania
Langwill, Bertha—Zoology B.S. (Rockford Coll.) 1916	SS	Rockford
Larson, Louis J—Research Fellow in Theoretical and Applied Mechanics B.S., C.E. (Univ. of Minnesota) 1914, 1915		* † Windom, Minnesota
Lathrop, Charlton Page—Scholar in Pomology B.S., 1916	SS	* † Chicago
Lauer, Willard Wood—Theoretical and Applied Mechanics B.S. (Carnegie Inst. of Technology) 1916		* † Pittsburgh, Pennsylvania
Lauterbach, Edward George—Botany B.S., 1915	SS	† Bushnell
Layton, Warren Kenneth—Education A.B. (Northwestern Univ.) 1911	SS	* † Potomac
Leach, Mac E—Scholar in English A.B., 1916	SS	* † Urbana
Leighty, Wilbur Roy—Chemistry B.S. (Illinois Wesleyan Univ.) 1910		† Urbana
Lewis, Thomas Kirk—Chemistry B.S. (Center Coll.) 1915	SS	Skylight, Kentucky
Linkins, Ralph Harlan—Zoology A.B. (Illinois Coll.) 1911 A.M., 1914		* † Jacksonville
Littleton, Ananias Charles—Economics A.B., 1912	SS	* † Urbana
Liu, Yi—Engineering (Associate of Tangshan Engineering Coll.) 1916		† Tientsin, China
Lopez, Manuel Leon—Spanish A.B. (Ohio Wesleyan Univ.) 1916		* † Delaware, Ohio
Lucas, Peter Horatio—Physics A.B. (Cornell Univ.) 1916		* † Hamonton, New Jersey
Ludvik, Benjamin Edward—History A.B., 1916		* † Chicago
Lundahl, Raymond Rudolph—Civil Engineering B.S., 1911		Milwaukee, Wisconsin
Luney, Francis Solon—Mechanical Engineering B.S., 1907		Dekalb

¹Candidate for professional degree in engineering.

McClugage, Harry Bruce—Chemistry A.B., 1915	SS	Peoria
McClure, William Lionel—Chemistry A.B. (<i>Drury Coll.</i>) 1916	* †	Lawton, Oklahoma
McCoy, Alva Elisha—Scholar in Agronomy B.S., 1916	* †	Allamont
McHarry, Jessie—History A.B., A.M., 1911, 1912	†	Rantoul
MacInnes, Frances Jean—Botany B.S., 1916	* †	Urbana
McKinley, John Douglas—Greek A.B., A.M. (<i>Harvard Univ.</i>) 1915, 1916	* †	Lowell, Massachusetts
McKown, Harry Charles—Education B.S. (<i>Knox Coll.</i>) 1913	* †	Gibson
McLaughlin, Maud Katharine—Latin A.B. (<i>Knox Coll.</i>) 1909	*	Galesburg
McMillan, George Burr—Transportation A.B., 1915	* †	Champaign
McNally, Mary Cecilia—History A.B., 1915	SS	Pueblo, Colorado
Magaret, Melitta Anna—Education A.B. (<i>Univ. of Chicago</i>) 1911	SS	Belleville
Magath, Thomas Byra—Fellow in Zoology Ph.B. (<i>Emory Coll.</i>) 1913	* †	Oxford, Georgia
Mahannah, A. Ernest—Fellow in Political Science A.B. (<i>Fairmount Coll.</i>) 1914		
A.M., 1916	* †	Sedgwick, Kansas
Manuel, Herschel Thurman—Educational Psychology A.B. (<i>DePaw Univ.</i>) 1909		
A.M. (<i>Univ. of Chicago</i>) 1914	* †	Greencastle, Indiana
Marker, Albert Washington—Physics Ph.B. (<i>Northwestern Coll.</i>) 1907	SS	Danville
Marston, Leslie Ray—Scholar in Education A.B. (<i>Greenville Coll.</i>) 1916	* †	Lakeview, Michigan
Marten, Jane Frances—French A.B. (<i>Oxford Coll. for Women</i>) 1916	*	Tolono
Marvel, Carl Shipp—Organic Chemistry A.B. (<i>Illinois Wesleyan Univ.</i>) 1915	* †	Normal
A.M., 1916		
Mattoon, Edwin Whitaker—Education A.B., 1915	SS	Champaign
May, Ethel Jane—History A.B., A.M. (<i>Univ. of North Dakota</i>) 1911, 1912	* †	Downing, Wisconsin
May, Henry Gustav—Zoology B.S. (<i>Univ. of Rochester</i>) 1913	SS	* † Dallas, Oregon
McMeredith, Ina Valeria—Mathematics A.B., 1914	*	Perry
Merrymon, William Walter—Physics A.B. (<i>Univ. of Missouri</i>) 1912	* †	Carbondale
Mickle, Friend Lee—Sanitary Chemistry A.B. (<i>Allegheny Coll.</i>) 1911	SS	* † Garland, Pennsylvania
Mikami, Goro—Economics B.S. (<i>Waseda Univ.</i>) 1912	*	Okamada, Kofu, Japan
Miles, Lee Ellis—Plant Physiology A.B. (<i>Wabash Coll.</i>) 1914	* †	Crawfordsville, Indiana
Millar, William James—Education A.B. (<i>Hanover, Coll.</i>) 1911	SS	Madison, Indiana
Miller, J. Earl—History A.B., LL.B. (<i>Univ. of Kansas</i>) 1910, 1912		
A.M., 1913	* †	Champaign
Milligan, Adah E.—English A.B. (<i>Monmouth Coll.</i>) 1914	SS	Monmouth
Mizuno, Tsunekichi—Education A.B. (<i>Hiroshima Normal Coll.</i>) 1908	SS	Koizumi, Japan
Moore, Josiah John—Pathology B.S. (<i>Univ. of Montana</i>) 1907	SS	* † Chicago
M.D. (<i>Rush Medical Coll.</i>) 1912		
Moore, Leonard L.—Education A.B. (<i>Drake Univ.</i>) 1914	SS	Zearing, Iowa
Morison, Alfred Thorpe—Agronomy B.S. (<i>Pennsylvania State Coll.</i>) 1915	*	Urbana
Morrison, Rodger Leroy—Civil Engineering B.S., 1912		College Station, Texas
Murphy, Maurice Elgin—Economics A.B. (<i>Central Normal Coll.</i>) 1910	* †	Eldorado
A.B. (<i>Indiana Univ.</i>) 1913		
A.M., 1916		
Murray, Ethel Ruth—Scholar in Latin A.B. (<i>Morningside Coll.</i>) 1909	* †	Schaller, Iowa
Murray, Norris Fey—Chemistry B.S., 1912	* †	Mazon

¹In Graduate Courses in Medical Sciences, offered in Chicago, Summer Session, 1916.

²Candidate for professional degree in engineering.

Myers, Arthur Leslie ¹ —Mechanical Engineering B.S., 1913		Willsville, Missouri
Myers, Frederick Irwin—English A.B., A.M. (<i>Indiana Univ.</i>) 1914, 1915	* †	Geneva, Indiana
Nebel, Merle Louis—Fellow in Economics Geology B.S., M.S., 1913, 1915	* †	Champaign
Neill, Alma Jessie—Physiology A.B., A.M., 1913, 1915	* †	Chillicothe
Nelson, Benjamin—Mechanical Engineering B.S., 1911		Chicago
Nelson, Milton Nels—Economics A.B., 1915	* †	Chicago
Nelson, Roy Andrew—Physics B.S. (<i>Knox Coll.</i>) 1916	* †	Galesburg
Neuens, William Barbour—Dairy Husbandry B.S. Agr. (<i>Univ. of Wisconsin</i>) 1914	SS * †	Urbana
Newlin, Charles Ivan—Animal Husbandry B.S., M.S., 1912, 1914	* †	Urbana
Newlove, George Hillis—Economics Ph.B. (<i>Hamlin Univ.</i>) 1914		
Nickoley, Emma May Rhodes—English A.B., A.M., 1899, 1915	* †	Milton, North Dakota
Nilsen, Peter Jacob—Electrical Engineering B.S., 1915	†	Beirut, Syria
Nolan, Willis James—Scholar in Entomology A.B. (<i>Western Reserve Univ.</i>) 1914	* †	Urbana
Okey, Ruth Eliza—Chemistry B.S. (<i>Monmouth Coll.</i>) 1914	* †	Madison, Ohio
Oldham, William Brown—Farm Crops B.S. (<i>Utah Agr. Coll.</i>) 1910	* †	Kirkwood
Olewine, James Harris—Organic Chemistry B.S. (<i>Pennsylvania State Coll.</i>) 1915	* †	Rexburg, Idaho
Ordonez, Benito Rene—Research Fellow in Railway Electrical Engineering B.S., 1914	* †	Bellefonte, Pennsylvania
Owens, Albert Waffle—Inorganic Chemistry B.S. (<i>Bucknell Univ.</i>) 1909	* †	Saltillo, Mexico
Palm, Franklin Charles—History A.B. (<i>Oberlin Coll.</i>) 1914	* †	Lewisburg, Pennsylvania
Parish, William Love—Scholar in Architectural Engineering B.S., 1916	* †	Wilmar, Minnesota
Parr, Rosalie Mary—Botany A.B., A.M., 1906, 1911	* †	Greenfield
Partridge, Newton Lyman—Fellow in Horticulture B.S., M.S., 1913, 1914	SS	Urbana
Pauli, Adolph Frederick—Scholar in Latin A.B., 1916	* †	Champaign
Pearson, Frank Ashmore—Economics B.S. (<i>Cornell Univ.</i>) 1912	* †	Peoria
Pepinsky, Bernard—Scholar in Engineering Mechanics C.E. (<i>Univ. of Cincinnati</i>) 1916	SS * †	Urbana
Perry, Margaret Campbell—Chemistry A.B., 1915	* †	Cincinnati, Ohio
Pfeil, Mary Esther—English A.B., 1908	SS * †	Urbana
Phelps, James Manley—English A.B. (<i>Northwestern Univ.</i>) 1912	SS * †	Arenzville
Pickett, Roy Ernest—Architectural Engineering B.S., 1911	*	DeKalb
Pickler, William Eugene—Plant Physiology A.B. (<i>Wabash Coll.</i>) 1914		Sullivan
Pieper, John—Agronomy Work for B.S. completed, 1916	* †	Louisville, Kentucky
Pierce, Thirza May—Education A.B., 1911	SS * †	Granite City
Pike, Carl Eli—Physics B.S. (<i>Cornell Coll.</i>) 1916	SS * †	Oak Park
Pittman, Thomas Merritt ¹ —Civil Engineering B.S., 1911	* †	Central City, Iowa
Pollock, Harry Robb—Farm Crops B.S., 1914		Chicago
Powell, Alfred Richard—Industrial Chemistry B.S. (<i>Univ. of Kansas</i>) 1914	SS	Clinton
Powell, Park—French A.M. (<i>Univ. of Nebraska</i>) 1915	* †	Ottawa, Kansas
Powell, B.S. (<i>Univ. of Missouri</i>) 1907, 1908	* †	Urbana
Powell, Sargent Gastman—Organic Chemistry B.S., M.S. (<i>Univ. of Washington</i>) 1916	* †	Seattle, Washington
Powers, Edwin Booth—Zoology A.B. (<i>Trinity Univ.</i>) 1906		
M.S. (<i>Univ. of Chicago</i>) 1913	SS * †	Waxahachie, Texas

¹Candidate for professional degree in engineering.

- Prichard, Walter—History
A.B., A.M. (*Indiana Univ.*) 1914, 1915 * † *Edinburg, Indiana*
- Putnam, William James—Theoretical and Applied Mechanics
B.S., 1910 * † *Urbana*
- Quick, Ray Stuart—Research Electrical Engineering
B.S. (*Univ. of California*) 1916 * † *Berkeley, California*
- Quimby, John Calvin—Animal Husbandry
B.S. (*Ohio State Univ.*) 1912 * † *Bridgeport, Ohio*
- Randolph, James Robbins—Mechanical Engineering
M.E. (*Virginia Poly. Inst.*) 1913 * *Blacksburg, Virginia*
- Rayner, William Horace—Education
B.S., 1909 * † *Urbana*
- Redenbaugh, Herman Edward—Chemistry
A.B. (*Tabor Coll.*) 1912 * † *Tabor, Iowa*
- Reece, Ernest James—Political Science
Ph.B. (*Western Reserve Univ.*) 1903 * † *Urbana*
- Reed, James Keel—Organic Chemistry
A.B. (*Wabash Coll.*) 1915 * † *Indianapolis, Indiana*
- Reeder, Claude Hazlett—Electrical Engineering
B.S., 1910 * *Chicago*
- Reeder, John Corwin—Education
Work for A.B. completed, 1917 † *Urbana*
- Rees, Alice Edna—Latin
A.B. (*Earlham Coll.*) 1913 SS * *Vermilion Grove*
- Rees, Edwin Arthur—Chemistry
A.B., A.M. (*Univ. of Denver*) 1913, 1914 * † *Garfield, Utah*
- Reinecke, Theodore Gerald Wellesley—Chemistry
B.S. (*Univ. of Cape of Good Hope*) 1907 * † *Cape Province, South Africa*
- Renich, Mary Emma—Botany
A.B., A.M., 1911, 1912 * † *Clinton*
- Ryerson, Lloyd Hilton—Physical Chemistry
A.B. (*Carleton Coll.*) 1915 SS * † *Dawson, Minnesota*
- Rhode, Chris Simeon—Genetics
B.S. (*Purdue Univ.*) 1915 * † *Brookston, Indiana*
- Rhoton, Alvis Lemuel—Scholar in Education
A.B. (*Georgetown Coll.*) 1899 SS * † *Somerset, Kentucky*
- Rice, John Benjamin—Animal Husbandry
B.S. (*Univ. of Nebraska*) 1915 SS * † *Urbana*
- Richardson, Clarence Hudson—Mathematics
B.S. (*Univ. of Kentucky*) 1913 SS * † *Buffalo, Kentucky*
- Richart, Frank Erwin—Theoretical and Applied Mechanics
B.S., M.S., 1914, 1915 * *Urbana*
- Rindfusz, Ralph Emerson—Chemistry
A.B., A.M. (*Oberlin Coll.*) 1911, 1916 SS * † *Larwill, Indiana*
- Ripley, Lewis Bradford—Fellow in Entomology
B.S. (*Trinity Coll.*) 1915 * † *Glastonbury, Connecticut*
- Roberts, Edward Alexander—Research Fellow in Railway Engineering, B.S. (*Harvard Univ.*) 1914 * † *Cambridge, Massachusetts*
- Roberts, Elmer—Genetics
B.S., 1913 SS * † *Urbana*
- Roberts, Gwladys Ellen—Scholar in Latin
A.B. (*Haver Coll.*) 1916 * † *Bedford, Indiana*
- Roberts, Nellie Read—English
A.B., B.L.S., 1913, 1915 * † *Champaign*
- Robertson, Eva Love
A.B., 1913 * † *Champaign*
- Robinson, Rodney Potter—Latin
A.B., A.M. (*Univ. of Missouri*) 1910, 1911 * † *Urbana*
- Rogers, Anna Sophie—Psychology
A.B., A.M., 1911, 1914 * † *Bushnell*
- Ross, Charles Marion—Scholar in Physiology
B.S. (*Eureka Coll.*) 1916 * † *Fairbury*
- Ross, Clarence Samuel—Economic Geology
A.B., A.M., 1913, 1915 * † *Champaign*
- Ross, Kenneth Dwight—Scholar in Economics
A.B., 1916 * † *Champaign*
- Rowland, Floyd Elba—Industrial Chemistry
B.S. (*Oregon Agr. Coll.*) 1907 SS * † *Corvallis, Oregon*
- Rowland, A.B., A.M., 1914, 1915 † *Urbana*
- Rudolfs, Willem—Botany
(*Government Univ., Wageningen, Holland*) SS * † *Fitchburg, Massachusetts*
- Rugg, Earle Underwood—Political Science
A.B., 1915 * † *Angelica, New York*
- Rulison, Harold Kirk—Economics
B.S. (*Cornell Univ.*) 1915 * † *Galia, Kansas*
- Russel, Robert Royal—Fellow in History
A.B. (*McPherson Coll.*) 1914 * † *Urbana*
- Ruth, Warren Albert—Botany
A.B., A.M., (*Wabash Coll.*) 1906, 1909 SS * † *Urbana*

*Candidate for professional degree in engineering.

Santee, Albert Merritt—Education A.B., 1916		* † Champaign
Sargent, Rachel Louisa—Scholar in Latin A.B. (<i>Bates Coll.</i>) 1914		* † Exeter, New Hampshire
Saunders, Jeannette—History Ph.B. (<i>Woooster Coll.</i>) 1915 A.M. (<i>Univ. of Minnesota</i>) 1916		* † Sireator
Sayer, Watson Russell—Chemistry B.S. (<i>Univ. of West Virginia</i>) 1914		* † Evans, West Virginia
Sayre, Rollo Clifton—History B.S. (<i>McKendree Coll.</i>) 1909	SS	Grayville
Schaarman, Emil Ferdinand—Education A.B., A.M., 1914, 1915		* † Champaign
Schalck, Michael Andrew—Agronomy B.S., 1916	SS	Buller, Kentucky
Sehecter, Ralph—English A.B., 1916	SS	Danville
Schlinck, Frederick John—Mechanical Engineering B.S., 1912		Washington, D. C.
Schoepferle, Helen Katherine—Fellow in History A.B., A.M., 1915, 1916		* † Hamburg, New York
Schoonover, Warren Rippey—Agronomy B.S. (<i>Occidental Coll.</i>) 1912 M.S., 1916		* Urbana
Schrader, Frederick Ambrose—Education A.B. (<i>Illinois Coll.</i>) 1908	SS	Murphysboro
Schulz, Ernest Rudolf—Scholar in Agronomy B.S., 1916		* † Champaign
Scotfield, Harriet—Mathematics B.S. (<i>Carthage Coll.</i>) 1915	SS	Carthage
Scott, James Robinson—Theoretical and Applied Mechanics B.S., 1907		Denver, Colorado
Scott, Roy Sunderlund—Economics Work for A.B. completed, 1917		* Urbana
Seifert, Herbert Frank—Scholar in Entomology A.B., 1916		* † Thiensville, Wisconsin
Sekine, Sentaro—Railway Engineering B.S., A.B., 1913, 1914		* † Suitama, Japan
Sexsmith, Edna K—Pathology A.B., (<i>Univ. of Iowa</i>) 1913	SS	Greenfield
Seyster, Ernest Willford—Experimental Zoology A.B., 1915	SS	* † Champaign
Shaw, Hazel Yearsley—Political Science A.B., A.M., 1907, 1908		* † Urbana
Shaw, Ray Iris—Animal Husbandry B.S., 1916		* † Peoria
Sherrill, Paul McLoud—History A.B. (<i>Trinity Coll.</i>) 1914		* † Charlotte, North Carolina
Sherwood, Franklin Frederick—Fellow in Inorganic Chemistry A.B., A.M. (<i>Univ. of South Dakota</i>) 1914, 1915		* † Madison, South Dakota
Shewhart, Walter Andrew—Physics A.B., A.M., 1913, 1914		* † Urbana
Shonle, Horace Abbott—Fellow in Animal Nutrition B.S., 1916		* † Tuscola
Shulters, John Raymond—French A.B., A.M., 1910, 1911		* † Bristol, New York
Siever, Carl Henry—Chemistry A.B. (<i>Univ. of Kansas</i>) 1913		* † Urbana
Simpson, George Eric—Chemistry B.S., 1913	SS	Chicago
Simpson, Sebastian Solon—History Work for A.B. completed, 1917		* † Urbana
Skinner, Glenn Seymour—Organic Chemistry A.B. (<i>Kansas State Manual Training Normal</i>) 1913 A.M., 1915	SS	* † Cherokee, Kansas
Slater, Maynard Elmer—Animal Husbandry B.S., 1915	SS	* Belvidere
Sloan, William Finlay—Education B.S., 1916	SS	Urbana
Sluss, Alfred Higgins—Mechanical Engineering B.S., 1901		Lawrence, Kansas
Smith, Arthur Matthias—Agronomy B.S. (<i>Pennsylvania State Coll.</i>) 1916		* † Berwick, Pennsylvania
Smith, Carl Ambrose—Education A.B. (<i>Wabash Coll.</i>) 1913	SS	New Ross, Indiana
Smith, Cecil Weldon—Mining Engineering B.S., 1913		Nokomis
Smith, Clara Mabel—Education Work for A.B. completed, 1917		* † St. Clair, Michigan
Smith, Guy Watson—Mathematics B.S., M.S. (<i>Univ. of Colorado</i>) 1908, 1909		* † Castle Rock, Colorado

¹Candidate for professional degree in engineering.

²In Graduate Courses in Medical Sciences, offered in Chicago, Summer Session, 1916.

Smith, Herbert E—Education A.B., 1916	SS	Ontario, Canada
Smith, Irene Fern—Chemistry B.S., 1916	* †	Red Bud
Smith, Isabel Seymour—Botany A.B. (Oberlin) 1901 M.S. (Univ. of Chicago) 1905	SS	Oberlin, Ohio
Smith, Linton Millard—Scholar in Chemistry B.S. (Shurtleff Coll.) 1916	* †	Danville
Smith, Marshall Eugene—Education B.Ph., A.B. (Greenville Coll.) 1911, 1916	*	Greenville
Smith, Merlin Grant—Fellow in Mathematics B.S. (Greenville Coll.) 1915 A.M., 1916	* †	Youngstown, Ohio
Smith, Otto Mitchell—Chemistry B.S. (Drury Coll.) 1907	* †	Urbana
Snapp, Roscoe Raymond—Animal Husbandry A.B., B.S., 1913	* †	Urbana
Snider, Earl Quinter—Education A.B., 1906	SS	Urbana
Snodgrass, John McBeath—Mechanical Engineering B.S., 1902		Urbana
Soto, Rafael Arcangel—Spanish B.S., A.B., 1912, 1915	* †	Sabana Grande, Porto Rico
Spooner, Charles Stockman—Entomology A.B. (Cornell Univ.) 1907	*	Middletown, New York
Squire, Edward G.—Dairy Husbandry B.S. (Iowa State Coll.) 1916	†	Grinnell, Iowa
Stanford, Howard Russel—Horticulture B.S., 1908	* †	Urbana
Stanton, William Macy—History of Architecture B.S., M.S. (Univ. of Pennsylvania) 1913, 1914	* †	Philadelphia, Pennsylvania
Star, Jacob Ray—Entomology B.S. (Ohio State Univ.) 1916	*	Irondale, Ohio
Stearn, Allen Edwin—Fellow in Chemistry A.B., A.M. (Stanford Univ.) 1915, 1916	* †	St. Louis, Missouri
Stephens, Ethel Gertrude—History Work for A.B. completed, 1917	†	Murphysboro
Stephenson, Bird Richard—Scholar in Physics A.B. (Albion Coll.) 1916	* †	Lake Odessa, Michigan
Stephenson, Roscoe Elmo—Agronomy B.S. (Purdue Univ.) 1915	* †	Bedford, Indiana
Stevenson, John Alford—Education A.B. (Ewing Coll.) 1908 A.M. (Univ. of Wisconsin) 1911	* †	Urbana
Stewart, Melville Boicourt—Mining Engineering Work for B.S. completed, 1917	*	Metropolis
Stone, Herbert King—French A.B. (Univ. of Michigan) 1905	* †	Urbana
Stopp, Gerald Darfield—English A.B., 1915	* †	Urbana
Stowell, Charles Jacob—Fellow in Economics B.S. (Illinois Wesleyan) 1911 A.M., 1912	* †	Urbana
Strauch, Frederick Paul—Research Fellow in Chemistry B.S. (Armour Institute) 1916	* †	Chicago
Strauch, Henry Harry—Chemistry B.S. (Univ. of Chicago) 1916	SS * †	Thomson
Strombeck, George Mauritz—Mechanical Engineering B.S., 1907		Moline
Stromquist, Walter Gottfred—Municipal and Sanitary Engineering B.S., 1910		Chicago
Sutcliffe, Dorothy—English A.B., 1916	* †	Urbana
Sutcliffe, Emerson Grant—English A.B. (Harvard Univ.) 1911 A.M., 1914	* †	Urbana
Swift, Lola Ernesta—Zoology A.B. (Mt. Morris Coll.) 1911	* †	DeKalb
Sydenstricker, Harry Sidney—Entomology B.S. (West Virginia Univ.) 1914	* †	Morgantown, West Virginia
Talbot, Kenneth Hammet—Civil Engineering B.S., 1909		Pittsburgh, Pennsylvania
Talbot, Mildred Virginia—Education A.B., 1912	SS	Urbana
Tanabe, Steffan Fugta—Research Fellow in Physics B.S. (Knox Coll.) 1911 M.S., 1914	* †	Tokyo, Japan
Taylor, Scott Champlin—Chemistry B.S., M.S., 1913, 1915	SS * †	Bement
Teare, John Lawrence—Scholar in Political Science A.B. (Monmouth Coll.) 1916	* †	Monmouth

¹Candidate for professional degree in engineering.

²In Graduate Courses in Medical Sciences, offered in Chicago, Summer Session, 1916.

Tebbe, Gerald Stamper—Scholar in Educational Psychology A.B., A.M. (<i>Univ. of Oklahoma</i>) 1915, 1916	* †	Perry, Oklahoma
Tehon, Leo Roy—Botany A.B. (<i>Univ. of Wyoming</i>) 1916	* †	Laramie, Wyoming
Templin, Richard Laurence—Research Fellow in Theoretical and Applied Mechanics B.S. (<i>Univ. of Kansas</i>) 1915	* †	Minneapolis, Kansas
Thompson, Francis—Education A.B., 1915	SS	Pinckneyville
Thurber, Carryl Nelson—English Literature A.B. (<i>Cornell Univ.</i>) 1908	* †	Richmond Hill, New York
Tieje, Ralph Earle—Fellow in English A.B., A.M., 1910, 1912	* †	Champaign
Tohill, Louis Arthur—American History A.B., A.M., 1912, 1914	* †	Flat Rock
Torrence, Helen Nettie—Latin A.B. (<i>Moumouth Coll.</i>) 1911	SS	Hanover
Towns, Orla Alamon—History A.B., 1912	SS	Macomb
Townsley, Fred Delzell—Education A.B. (<i>Wabash Coll.</i>) 1911	SS	Idaville, Indiana
Turner, Frank Clayton—Education B.S., 1914	SS	DuQuoin
Uhlendorf, Bernhard Alexander—German Literature A.B., A.M. (<i>Washington Univ.</i>) 1916	* †	St. Louis, Missouri
Ulich, Lynne H.—Chemistry B.S. (<i>Grinnell Coll.</i>) 1914	* †	Villisca, Iowa
Ulrici, Helena Marie—Scholar in German A.B. (<i>Rockford Coll.</i>) 1915	* †	Rockford
Updegraff, Helen—Chemistry A.B. (<i>Cornell Univ.</i>) 1915	* †	Vallejo, California
Urban, Harvey Benjamin—Education A.B., 1908	SS	Urbana
Vail, Harold Parsons—Research Scholar in Mechanical Engineering, B.S. (<i>Pennsylvania State Coll.</i>) 1916	* †	Erie, Pennsylvania
Van Alstine, Ernest—Agronomy B.S. (<i>Michigan Agr. Coll.</i>) 1907	* †	Urbana
Van Winkle, William Alexander—Industrial Chemistry B.S. (<i>Univ. of Michigan</i>) 1911	* †	Bay City, Michigan
Vanzee, George Wallace—Zoology B.S. (<i>Central Coll., Pella, Iowa</i>) 1915	* †	Pella, Iowa
Voigt, Edwin Frederick—Bacteriology B.S. (<i>Purdue Univ.</i>) 1915	*	Camden, New Jersey
Vollweiler, Ernest Henry—Organic Chemistry A.B. (<i>Miami Univ.</i>) 1914 A.M., 1916	* †	Shandon, Ohio
Voorhees, Laurence Elmer—Physics A.B., 1916	* †	Upper Alton
Wade, Vernon Matthew—Chemistry B.S. (<i>Shurtleff Coll.</i>) 1916	* †	Alton
Wait, Bernice Cornelia—Household Science B.S. (<i>McKendree Coll.</i>) 1914	* †	Greenville
Waldo, Edward Hardenburgh ¹ —Electrical Engineering A.B. (<i>Amherst Coll.</i>) 1898		Urbana
Walker, George William—Agronomy B.S., 1916	* †	Mackinaw
Walker, Quinton Forrest—Economics A.B., M.A. (<i>Univ. of Michigan</i>) 1911, 1915	* †	Jackson, Michigan
Walworth, Edward Harvey—Agronomy B.S., 1913	* †	Urbana
Wang, Chi Nyok—Botany A.B. (<i>Mount Holyoke Coll.</i>) 1916	* †	Soochow, China
Wang, Te Chang—Animal Husbandry B.S., 1916	SS *	Soochow, China
Warner, Earle Horace—Physics A.B. (<i>Univ. of Denver</i>) 1912 A.M., 1914	* †	Urbana
Warren, George Edward—Civil Engineering B.S., 1912		Chicago
Watson, Jane Coulson—Spanish A.B., 1915	* †	Champaign
Weese, Asa Orrin—Zoology B.S. (<i>Univ. of Minnesota</i>) 1909	SS	Hutchinson, Minnesota
Weese, Josephine Mousley—History A.B. (<i>Univ. of Minnesota</i>) 1909	SS	Litchfield, Minnesota
Weeter, Harry Montgomery—Dairy Bacteriology A.B. (<i>Allegheny Coll.</i>) 1911	SS *	Fredell, Pennsylvania
Weiland, Henry Joseph—Physical Chemistry B.S. (<i>Univ. of Rochester</i>) 1913 M.S., 1915	SS *	Pittsford, New York
Weirick, Robert Bruce—English A.B. (<i>Colorado Coll.</i>) 1911 A.M. (<i>Harvard Univ.</i>) 1913	* †	Urbana

¹Candidate for professional degree in engineering.

- Weiss, Camillo—Fellow in Civil Engineering
C.E. (*Kaiserlich-Koenigliche Technische Hochschule, Vienna, Austria*) 1910
- Wellman, Orpha May—English
A.B., A.M., 1911, 1913
- Wells, Lansing Sadler—Inorganic Chemistry
A.B. (*Univ. of Montana*) 1915
- Westhafer, Terrence Onas—Industrial Chemistry
A.B. (*Univ. of Oklahoma*) 1914
M.S., 1916
- Whisenand, James Wilbur—Animal Husbandry
B.S. (*Univ. of Nebraska*) 1914
M.S., 1916
- White, Marian Elizabeth—English
A.B. (*Mount Holyoke Coll.*) 1902
- Whitford, Robert Calvin—English
A.B. (*Coll. of the City of New York*) 1912
A.M. (*Columbia Univ.*) 1913
- Whitson, Anna Verlinda—English
A.B. (*Oxford Coll. for Women*) 1915
- Wichers, Edward—Fellow in Inorganic Chemistry
A.B. (*Ilepe Coll.*) 1913
M.S., 1915
- Wichmann, Gerold Carl—Psychology
A.B. (*Univ. of Chicago*) 1914
- Wiebe, Herman H.—German Literature
A.B. (*Univ. of Nebraska*) 1913
A.M. (*Univ. of Wisconsin*) 1916
- Wiedrick, Jacob Christian—Education
A.B. (*Emporia Coll.*) 1913
- Wilcox, Roy Harold—Animal Husbandry
B.S. (*Minnesota Agr. Coll.*) 1915
- Willard, Charles Julius—Agronomy
B.S., 1910
- Williams, Lewis Ward—Education
B.Ph. (*Hiram Coll.*) 1909
- Williams, Roy Arlyn—Education
A.B. (*DePauw Univ.*) 1912
- Williams, Walter Leonard—Animal Husbandry
B.S. (*Ohio State Univ.*) 1914
- Wilson, Frank Boyden—English
B.S. (*Fisk Univ.*) 1914
- Wilson, William Harold, Fellow in Mathematics
A.B. (*Albion Coll.*) 1913
A.M., 1914
- Winkelmann, Herbert August—Organic Analysis
B.S. (*North-Western Coll.*) 1914
M.S., 1915
- Witmer, Samuel Wenger—Botany
A.B. (*Goshen Coll.*) 1914
A.M. (*Univ. of Wisconsin*) 1915
- Wolcott, George Norton—Fellow in Entomology
M.S. (*Cornell Univ.*) 1914
- Wollenhaupt, Walter Franz—Education
B.Ph. (*Ohio Wesleyan*) 1903
- Wright, Agnes—History
A.B., 1916
- Wright, Charles Henry—Education
B.S. (*Wesleyan Univ.*) 1907
- Yapp, William Wodin—Genetics
B.S., M.S., 1911, 1914
- Yntema, Leonard Francis—Inorganic Chemistry
A.B. (*Hope Coll.*) 1915
- Young, Dale S—Scholar in Mathematics
B.S. (*Hedding Coll.*) 1916
- Young, Esther—Plant Pathology
A.B. (*Miami Univ.*) 1914
A.M., 1915
- Yuasa, Hachiro—Scholar in Entomology
B.S. (*Kansas State Agr. Coll.*) 1915
- Yunker, Mrs. Ethel Cloffin—Household Science
B.S. (*Michigan Agr. Coll.*) 1915
- Yunker, Truman George—Botany
B.S. (*Michigan Agr. Coll.*) 1914
A.M. (*Univ. of Nebraska*) 1915
- Ziesenheim, Joseph Rossiter—Animal Husbandry
B.S. (*Pennsylvania State Coll.*) 1915
- Zimmermann, Robert Paul—German
A.B., 1913
- * † Vienna, Austria
- SS Champaign
- * † Helena, Montana
- * † Urbana
- * † Urbana
- * † Newton, Massachusetts
- * † Urbana
- * † Marion, Indiana
- * † Zeeland, Michigan
- * † Laramie, Wyoming
- * † Beatrice, Nebraska
- SS Princeton
- * † Minneapolis, Minnesota
- * † Urbana
- * † Marshall
- SS Bismarck
- * † Wilmington, Ohio
- SS St. Louis, Missouri
- SS * † Champaign
- * † Appleton, Minnesota
- SS Sondersburg, Pennsylvania
- * † Utica, New York
- SS Villa Grove
- † Charles City, Iowa
- SS McLean
- * † Urbana
- * † Holland, Michigan
- * † Abingdon
- SS * † Indianapolis, Indiana
- * † Tokyo, Japan
- * † Champaign
- * † Lansing, Michigan
- SS Avonia, Pennsylvania
- * † Champaign

UNDERGRADUATE AND PROFESSIONAL COLLEGES AND SCHOOLS IN URBANA, 1916-17

(Including the Colleges of Liberal Arts and Sciences, Commerce and Business
Administration, Engineering, Agriculture, and Law, the One-year
Medical College, the Library School, and the School of Music)

ABBREVIATIONS Curriculums

Arch	Architecture	LAS	General Liberal Arts and Sciences
AE	Architectural Engineering	Lib	Library Science
Agr	Agriculture	MdP	Medical Preparatory
CE	Civil Engineering	Med	One-year Medical
CerE	Ceramic Engineering	ME	Mechanical Engineering
Chem	Chemistry	MinE	Mining Engineering
ChE	Chemical Engineering	MSE	Municipal and Sanitary Engineering
Com	Commerce and Business Administration	Mus	Music
EE	Electrical Engineering	RCE	Railway Civil Engineering
HSAgr	Household Science, Agriculture	REE	Railway Electrical Engineering
HSLAS	Household Science, Liberal Arts and Sciences	RME	Railway Mechanical Engineering
Law	Law	Sp	Special
		SS	Summer Session (1916)

Name	Curriculums	Credit Hours ¹	Residence
Abbott, Howard Green	<i>Agr</i>	67	* † ² <i>Morrison</i>
Abernathy, Clara Louise	<i>Lib</i>		* † <i>Des Moines, Iowa</i>
Abraham, Lucile Hannah	<i>LAS</i>		* † <i>Moline</i>
Abrahams, Samuel	<i>LAS</i>		* † <i>Oblong</i>
Abrams, Ella	<i>HSLAS</i>	97½	* † <i>Chicago</i>
Abt, Burl Raymond	<i>Com</i>	15	* † <i>Chicago</i>
Acer, Charlotte Weld	<i>HSLAS</i>		* † <i>Medina, New York</i>
von Ach, Frank Claire	<i>Com</i>	66	* † <i>Davenport, Iowa</i>
Acker, Arthur Louis	<i>SS</i>		* † <i>Springfield</i>
Ackerson, Esther Mae	<i>HSLAS</i>	102	* † <i>Westfield, Indiana</i>
Ackert, Alice Nowell	<i>Agr (SS)</i>	84½	* † <i>Dixon</i>
Ackert, Harris LeRoy	<i>Agr</i>	30	* † <i>Dixon</i>
Adams, Allan Madison	<i>Agr</i>	101	* † <i>Stuttgart, Arkansas</i>
Adams, Alvin James	<i>ComSp</i>		* † <i>Williamsfield</i>
Adams, Herold Vincent	<i>SS</i>	7	* † <i>Galesburg</i>
Adams, Hurd Curtiss	<i>Agr</i>		* † <i>El Paso</i>
Adams, Leota Valentine	<i>HSLAS (SS)</i>	91	* † <i>Princetonville</i>
Adams, Pauline Hopkins	<i>LAS</i>	115	* † <i>Grand Rapids, Michigan</i>
Adams, Warren David	<i>AE</i>	38½	* † <i>Scates Mound</i>
Adams, William Clarence	<i>CE</i>	15	* † <i>St. Louis, Missouri</i>
Adamson, Glen Steidley	<i>ME</i>		* † <i>Mooresburg</i>
Adler, Eugene Max	<i>Com</i>	31	* † <i>Mattoon</i>
Adler, Leon	<i>ChE</i>	112	* † <i>St. Louis, Missouri</i>
Adsit, Lois Cornelia	<i>HSLAS</i>	28	* † <i>Wellington</i>
Affolter, Priscilla Viola	<i>LAS</i>		* † <i>Maywood</i>
Agg, Sarah	<i>HSAgr (SS)</i>	107	* † <i>Evansville, Indiana</i>
Agnew, Beulah Irene	<i>LAS</i>	101	* † <i>Villa Grove</i>
Agnew, David Reed	<i>CE</i>		* † <i>Chicago</i>
Agramonte, Roberto	<i>Agr</i>		* † <i>Arequipa, Peru</i>
Ahlers, Ophelia	<i>LAS</i>	31	* † <i>Stanton</i>
Aikman, Elijah James	<i>AgrSp</i>		* † <i>Marion</i>
Ainsworth, Madalane Zelomia	<i>LAS (SS)</i>	70	* † <i>Chicago</i>
Albaugh, Hazen Lowell	<i>Com</i>	96½	* † <i>Berwyn</i>
Albaugh, Kathryn Rebecca	<i>HSLAS</i>	60	* † <i>Berwyn</i>
Albee, Archie Delbert	<i>Com</i>		* † <i>Urbana</i>
Albee, Chester Leon	<i>Agr</i>	83	* † <i>Urbana</i>
Albert, Harry Dee	<i>Com (SS)</i>	80	* † <i>Mansfield</i>
Alberts, Dorothy Alvena	<i>HSLAS</i>		* † <i>Champaign</i>
Albrecht, Daniel Arthur	<i>Agr (SS)</i>	144½	* † <i>Champaign</i>
Albright, Ivan Lorraine	<i>Arch</i>		* † <i>Hubbard Woods</i>
Albright, Joseph Clarence	<i>ME</i>	73	* † <i>Rossville</i>
Albright, Malvin Man	<i>Arch</i>		* † <i>Hubbard Woods</i>
Alcock, Warren Joseph	<i>ME</i>	71	* † <i>Chicago</i>
Alderson, Edmund Wildo	<i>Com</i>		* † <i>Chicago</i>
Aldrich, Richard Lewis	<i>LAS</i>		* † <i>Earleville</i>

¹Computed October 1, 1916.

²Attendance, first semester, indicated by asterisk (*); second semester, by dagger (†).

Alesen, Lewis Albert	L.A.S (SS)	69½	* † Chicago Heights
Aleshire, Margaret	HSLAS	17	* † Chicago
Alexander, Louis Jessup	Arch	35	* † Los Angeles, California
Alison, Newton Vincent	Com		* † Champaign
Allaben, John Everett	Agr (SS)	24	* † Rockford
Allen, Artemus Floyd	MinE		* † Morning Sun, Iowa
Allen, Cecil Violet	HSLAS	32	* † Broadlands
Allen, Edmund Turney	Agr		* † Morgan Park
Allen, Frank Oscar	Agr (SS)	15½	* † Clinton
Allen, Franklin Hendry	CE		* † Oak Park
Allen, Harriet Ethel	SS	5½	* † Waverly
Allen, Harriet Horton	HSAgr	64	* † Delavan
Allen, Harry Kenneth	Com		* † Broadlands
Allen, Hester Ada	SS	102	* † Delavan
Allen, Lawrence Holt	Com		* † Indianapolis, Indiana
Allen, Lucy Elizabeth	HSAgr	107	* † Delavan
Allen, Lura Edna	SS	5½	* † Waverly
Allen, Raymond Earl	ME		* † Chicago
Allen, Theodore Raymond	Agr		* † Delavan
Allen, William Robert	AE		* † Peoria
Allhands, Cashius Lyle	Agr	112½	* † Watseka
Allison, Everett Harmen	L.A.S		* † East St. Louis
Allison, John Clifton	Agr sp		* † Charleston
Allison, Leslie Reed	L.A.S		* † East St. Louis
Allman, Delmar Isaac	Agr		* † Urbana
Allman, John Claude	CE	36	* † Crown Point, Indiana
Allyn, Hester Anne	HSLAS	95	* † Urbana
Allyn, Norman Barnes	Com (SS)	24	* † Springfield
Almond, Harry Havens	Com	86	* † Anderson, Indiana
Alsop, Thomas Vincent	SS	8½	* † Sorento
Alt, Frank Henry, Jr.	Agr		* † Chicago
Althaus, Florence Gertrude	L.A.S	23½	* † Belvidere
Alverson, Ruth Amelia	L.A.S	64	* † Urbana
Alwood, Clyde Gobel	Agr	98	* † Clinton
Alwood, Fred Ward	L.A.S		* † Clinton
Amana, Alfred	L.A.S	32	* † Honolulu, Hawaii
Ambruster, John Rea	Agr	99	* † Chicago
Ames, Albert Carder	L.A.S	94	* † Riverside
Ames, Carlton Chester	EE		* † Grayslake
Ames, Waldo Boynton	Com	92	* † Oak Park
Amsterdam, Harry, A.M., 1916			
A.B. (Lake Forest Coll) 1915	Lib		* † Urbana
Anastasiades, Ernest	CE	70	* † Athens, Greece
Anderson, Barney Ernest	SS		* † Rockford
Anderson, Carl Leonard	Com	71	* † Hudson, Wisconsin
Anderson, Charles Wesley	L.A.S	102½	* † Dixon
Anderson, Clarence	EE	72	* † Taylorville
Anderson, Dwight	AE		* † Taylorville
Anderscn, Earl William	L.A.S	60	* † Charleston
Anderson, Elda Victoria	HSAgr	60	* † DeKalb
Anderson, Mrs. Elsie Osborne	L.A.S (SS)	67	* † Urbana
Anderson, Ernest Edward	EE	30	* † Chicago
Anderson, Esther Dorothy	SS		* † Marinette, Wisconsin
Anderson, George Arthur	AE		* † Long Beach, California
Anderson, George Harold	MinE		* † Lake Forest
Anderson, Harold	Com	5	* † Paxton
Anderson, Harold Irwin	L.A.S		* † York, Nebraska
Anderson, Jennie	MidP (SS)	70	* † Oklahoma City, Oklahoma
Anderson, Joshua Clayton	Agr (SS)	101	* † Williamsport, Indiana
Anderson, LeRoy McKinley	EE		* † Chicago
Anderson, Lester Adrian	Agr		* † Leland
Anderson, Lucile Miriam	HSLAS	25	* † Martinsville, Indiana
Anderson, Olive Matilda	HSAgr	96½	* † Chicago
Anderson, Paul Alexander	L.A.S	34	* † Chicago
Anderson, Perry John	Com	49	* † Urbana
Anderson, Roy B.	Agr	75	* † Winnebago
Anderson, Roy Taylor	AE		* † Evansville, Indiana
Anderson, Stanley Davis	Arch	109	* † Lake Forest
Anderson, Walter Henry	Com		* † Rockford
Anderson, William Wilson	Agr	122	* † Ohio
Andreas, Lewis Peter	Com	36	* † Sterling
Andren, Erland Frederick	L.A.S		* † Gary, Indiana
Andrews, Elizabeth	HSLAS	32	* † Urbana
Andrews, Frank Monroe	EE		* † Dundee
Andrews, Howard Milo	L.A.S		* † Chicago
Andrews, John Harley	Com	32	* † Champaign
Andrews, Leonard Elmer	Com	22	* † Oak Park
Andrews, Mae Blanche	SS		* † Rockford
Andrews, Mary Alberta	HSLAS	60	* † Pana
Andrews, Robert Eugene	Agr	63	* † Chicago
Andrews, Ruth Helen	L.A.S (SS)	59	* † Urbana
Andrews, Thomas Carr	Com	30	* † Woodstock
Andrist, Victor Rudolph	SS	10½	* † West Concord, Minnesota
Antensen, Harry George	Arch	71	* † Hamilton, Ohio
Antoszewski, Robert Horatius	Agr	85	* † Glencoe

Appel, Robert Everett	LAS		* † Springfield
Appelgran, Clarence Oliver	Agr	99	* † Chicago
Apple, Russell Evans	Agr	69	* † Robinson
Apple, Wilbur Martin	SS	7	* † Miami, Ohio
Archbold, Harold Herbert	EE	33	* † Brookfield
Arends, Annis Lilian	HSLAS (SS)	98	* † Champaign
Arends, Arthur	Agr	95	* † Melvin
Argo, David	EE	57	* † Urbana
Armington, Clara Grace	Mus	67	* † Dixon
Armitage, Mrs. J. H.			
A.B. (Albion College) 1913	SS		* † Sheldon
Armitage, James Howard	SS		* † Sheldon
Armstrong, Alice Nona	LAS	93	* † Tolono
Armstrong, Arlo James W	LAS	36	* † Rochester, New York
Armstrong, Donald Alfonso	LAS	63	* † Metropolis
Armstrong, Elizabeth Emily	SS	62	* † Champaign
Armstrong, Hazel Irene	Mus (SS)	38	* † Champaign
Armstrong, Horace	Com	56	* † River Forest
Armstrong, James William	LAS		* † Centralia
Armstrong, John Harold	LAS (SS)	104	* † Champaign
Armstrong, Oliver Milton	ME	35	* † Rochester, New York
Armstrong, Paul Leo	LAS	63	* † River Forest
Armstrong, Thomas Hunter	LAS	31	* † Mound City
Armstrong, Wilber Price	LAS		* † Springfield
Arndt, Paul, Jr.	Agr	94	* † St. Charles, Missouri
Arnett, Anna Ruth	LAS	21	* † St. Louis, Missouri
Arney, Paul Wayne	Com		* † Casey
Arnold, Charles Vincent	Agr		* † LaGrange
Arnold, Howard Shaver	Agr	68	* † Ottawa
Arnold, Orville Dayton	LAS	22½	* † Browning
Arntzen, Inga Irene	LAS	83½	* † Sycamore
Attrick, Herbert McClain	RME		* † Logansport, Indiana
Asai, Seiji	Com (SS)	93	* † Kyoto, Japan
Ash, Ian Henry	Agr	24	* † Onida
Ash, James Landreth	LAS	63	* † Philadelphia, Pennsylvania
Ashby, Ernest Van Allen	Arch		* † Berwyn
Astell, Louis Alexander	MdP		* † Homer
Atherton, Harold	AE	20	* † Anderson, Indiana
Atkins, Millicent	HSAgr	31	* † Evansville, Indiana
Atkins, Milo Pitney	Arch		* † Freeport
Atkinson, Margaret Hazel	LAS		* † Delphi, Indiana
Attiebery, Hazel	LAS	62	* † Hillsboro
Atwell, Donald Burgess	LAS	21	* † Chicago
AuBuchon, Joseph Montgomery	EE	71	* † Oak Park
Augustus, Lalah Marie	HSLAS (SS)	105	* † Champaign
Auld, Ernest Roland	Agr	69	* † Martinsville
Ausbrooks, Jacob Henry	Agr sp		* † Dongola
Avery, Guy Thomas	ME	107½	* † Three Rivers, Michigan
Avery, Rowland Alonzo	Agr	83	* † Santa Fe, New Mexico
Axline, Edward Springer	Com	109½	* † Wenona
Azarraga, Francisco	SS		* † Calvo, Capiz, P. I.
Babcock, Dan	AE	109	* † Anderson, Indiana
Bach, Alfred Erwin	Arch		* † Fairbury
Bachman, Mildred Elizabeth	Mus		* † Tiskilwa
Bachman, Myron Cole	ME		* † Minot, North Dakota
Bacon, Carl Alfons	ME	71	* † Chicago
Bacon, Guy	Agr		* † McHenry
Bacon, Oliver Greene	Agr	81½	* † Harlan, Iowa
Badger, Carroll John	Agr (SS)	45½	* † Maury City, Tennessee
Badger, Eunice Louise	LAS (SS)	74	* † Riverside
Badollet, Marion Smith	ChE	24	* † Vincennes, Indiana
Baechler, Matilda May	HSAgr (SS) sp	83	* † Grant Park
Baer, Sandford Joseph	LAS	5	* † Murphysboro
Baethke, Lilian Henrietta	HSLAS		* † Glen Ellyn
Bahe, Dorothy Virginia	LAS	34	* † Chicago
Bailey, Alice Lillian	HSLAS		* † Geneva
Bailey, Earl Willis	LAS	58	* † Boddy
Bailey, Hamilton Renward	LAS		* † Peoria
Bailey, La Force, B.S., M.S., 1915, 1916	SS		* † St. Charles
Baird, Chester Anthony	LAS		* † Park Ridge
Baker, Clarence Everett	Agr	31	* † Champaign
Baker, Earl Boggess	CerE	36	* † Fairmount
Baker, Eldred Benjamin	Com		* † Riverside
Baker, Ernest Monroe	SS	10½	* † Rome, New York
Baker, Flora Elizabeth	LAS		* † Decatur
Baker, Fred Phelps	ChE	72	* † Denver, Colorado
Baker, Gerald Clifford	LAS	100	* † Bement
Baker, Guy	EE	36	* † Orlando, Oklahoma
Baker, Harold Griffith	LAS		* † East St. Louis
Baker, John Babcock	ChE		* † Pontiac
Baker, Lloyd Garrison	Agr sp		* † La Moille
Baker, Walter Riley	Agr sp		* † LaFayette, Indiana
Balbach, Nyle Jacob	Com	65	* † Chenoa
Balch, Nellie Allison	HSAgr	32	* † Lerna
Balderson, Ted Albert	AE	107	* † Wilber, Nebraska

Baldwin, Arthur Ernest	Com	4	* † Danville
Baldwin, Margaret Helen	HSLAS	95	* † Ottawa
Baldwin, Milton Ford	LAS	19	* † New Haven, Connecticut
Ball, Frederic Dunham	LAS	65	* † Clinton
Ball, Lee Cleveland	SS	8	* † Worthington, Indiana
Ball, Mary Elsie	HSLAS (SS)	100	* † Rossville, Indiana
Ball, Mary Myrtle	LAS		* † Webb City, Missouri
Ballingier, Ione Fredericks	HSLAS	34	* † Chenoa
Barnesberger, Velda Christena	LAS (SS)	83	* † Champaign
Barnford, Thomas	Agr	70	* † Barrow-in-Furness, England
Bancroft, Anna Dewey	LAS	33	* † Maywood
Bandy, Lorenson	ME	34	* † Lake City
Banerjee, Monindra	LAS		* † Calcutta, India
Bangert, Clarence John	Agr	33	* † Chicago
Banister, Percival Bolling	Eng		* † Omaha, Nebraska
Bannen, Robert William	Chem		* † Rockford
Bannister, John Howard	Agr	62	* † Kewanee
Bannister, Laura Smith	Agr		* † Kewanee
Barackman, Hazel B	HS Agr	28	* † Streator
Baraglia, Victor Anthony	ME	31	* † Chicago
Barber, Hillis Elwyn	Agr	67	* † LaFox
Barber, Wilbur Barrett	EE	75	* † Joliet
Barcume, Lyle Nelson	Arch		* † Los Angeles, California
Bardwell, Conrad Morton	LAS	36	* † Aurora
Barker, Annie Eliza	LAS		* † Bondville
Barker, Edwin Franklin	ME	147	* † Rock Island
Barklage, Oliver Frederick	EE	33	* † St. Charles, Missouri
Barkow, Emory Merrill	Agr	43½	* † Chicago
Barkstrom, Edward Carl	ME	136	* † Chicago
Barkstrom, Walter Rudolph	CE	54	* † Chicago
Barlow, Ralph Frederick	Com		* † Galva
Barnaby, Jessie Miriam	LAS		* † Greensburg, Indiana
Barnard, Earl Morton	Com		* † Muscatine, Iowa
Barnes, Anne Atala	LAS		* † Urbana
Barnes, Clara Mae	LAS		* † Albia, Iowa
Barnes, Clifton Eugene	ChE	37	* † Albion
Barnes, Earl Convis	REE	106	* † Decatur
Barnes, Harold John	Arch	108	* † Joliet
Barnes, Helen Miriam	LAS (SS)	100	* † Washburn
Barnes, Helen Virginia	SS	7	* † LaFayette, Indiana
Barnes, Howell Hart	Arch	31	* † Chicago
Barnes, John Ellis Ransom	SS		* † Cedar Falls, Iowa
Barnes, Mary Grace	Lib	36	* † LaFayette, Indiana
Barnes, Winifred	HSLAS	67	* † Kansas City, Missouri
Barnett, Herman Kohlsaat	LAS (SS)	43	* † Chicago
Barnum, Edwin Croskey	Agr		* † LeRoy
Barnum, Richard Fyfe	ME	131	* † LaGrange
Barr, Forest Astley	EE	37	* † Oak Park
Barrett, Forrest Prow	Com sp		* † Muncie, Indiana
Barrett, Frank Newton	Agr (SS)	88½	* † Chicago
Barry, Forrest Martin	Com		* † Rantoul
Barry, Jennie Eulalia	LAS (SS)	79	* † Champaign
Bartels, Leo Franz	Com		* † Hamilton, Ohio
Bartels, Minnie	LAS (SS)	96½	* † Chicago
Bartholomew, Charles William	Com sp		* † Bowen
Bartholomew, Herbert	Com	32	* † Indianapolis, Indiana
Bartholomew, Ruth Porter	LAS	45½	* † Table Grove
Bartlett, Harry Owen	Arch	105	* † Eau Claire, Wisconsin
Bartlett, Lowell Wilson	Com	23	* † Rockford
Bartlett, William Henry	Agr		* † Fairbury
Bartley, Charles Austin	Agr	34	* † Chicago
Bartling, Arthur William	EE	36	* † Litchfield
Barto, Margaret Murray	HSLAS	102	* † Urbana
Bartos, Bohuslav	CE	47	* † Chicago
Bash, David Anderson	Chem	26	* † Hannibal, Missouri
Bass, Fred	Agr		* † Armstrong
Bass, Perkins Burnham, Jr.	ME		* † Evanston
Bassett, Homer Benton	Com		* † Muskogee, Oklahoma
Bast, Theodore Hieronymus	SS		* † Rockfield
Bastable, Frank George	Com		* † Sycamore
Bates, Charles Emmett	CerE (SS)	101	* † Galesburg
Batson, John Thaddeus	ChE	55	* † Marshall
Battaille, Sallie Catherine	LAS	96	* † Champaign
Batney, Bradford Reed	Com	103	* † Urbana
Batney, Leslie James	ME		* † Tiskilwa
Batney, Zilpha Curtis	HSLAS (SS)	97	* † Urbana
Bauder, Lewis Augustus	Agr	98	* † Berwyn
Bauer, Ezra Edward	CE	35½	* † Toledo, Ohio
Bauer, Irving Newell	Agr	34	* † Compton
Baum, George Humphrey	Com		* † Morris
Baum, Margaret Sutton	LAS	34	* † Shelbyville
Bauman, John Jay	Arch		* † Davenport, Iowa
Bayley, Emily Elizabeth	LAS		* † Urbana
Baysinger, Bertha May	LAS	31	* † Aurora
Baysinger, Walter George	Agr	32	* † Aurora

Beach, Clara May	SS	3	* † Chicago
Beach, Julian Burdette	Agr		* † Ottawa
Beadles, Jessie Rachel	SS	1	* † Virginia
Beals, Clarence Hubert	Agr	16	* † Galva
Beals, Roscoe Garfield	SS	1	* † Westfield, Indiana
Beaman, Earl Edwin	ChE		* † Champaign
Bean, John Mason	Agr		* † Decatur
Bean, Lillian Bertha	LAS	99	* † Blue Mound
Bear, Chester Randall	Com	65	* † Ludlow
Beard, Odian Swain	LAS	24	* † Shabbona
Beardsley, Henry Scovell	Agr (SS)	82	* † Kansas City, Missouri
Beattie, Dewey Thompson	Agr		* † Sparta
Beatty, Grace Elizabeth	LAS (SS)	5	* † Urbana
Beatty, Owen Chauncey	Agr	69	* † Urbana
Beaudry, Louis Hayne	ChE		* † Chicago
Beavers, Harrison Bruce	Com	32	* † Washington, D. C.
Bock, Gerald Eugene	Arch	31	* † Long Beach, California
Beck, Margaret Elizabeth Lister	LAS		* † Chicago
Beck, Ruth Marie	HSLAS	63	* † Champaign
Beckemeyer, Harry John	SS	108½	* † Beckemeyer
Beckemeyer, Mary Brown	SS	9½	* † Beckemeyer
Becken, Albert Charles, Jr.	LAS		* † Park Ridge
Becker, Frederick William	ME		* † Chicago
Becker, John Haerns	Agr		* † Bloomington
Becker, Paul	ME	111	* † Berwyn
Becker, Walter Henry	Com (SS)	94½	* † Chicago
Bee, Winifred Marian	LAS	67½	* † Chicago
Beebe, Horace Newell	CE	18½	* † Chicago
Beeby, Ruth Alice	SS	46	* † Urbana
Beeman, Marion Roy	Law		* † Robinson
Beers, Barnette William	MdP		* † Wheaton
Beers, Otis Edward	ME	125	* † Elkhart, Indiana
Beesley, Charles	LAS sp		* † Allendale
Behel, Wesley Arthur	Arch	108	* † Lake Bluff
Behrens, Martin Albert	Com	34	* † Crete
Beidler, Herbert Bishop	Arch	35	* † Auburn, Indiana
Beien, Frank Michael	Com		* † Sterling
Belford, Hugh Othel	SS	7½	* † Marion
Bell, Cecile Mary	LAS	36	* † West York
Bell, Clarence James	Com		* † Harvey
Bell, Edith May	LAS		* † Milton, Iowa
Bell, Harold Philip	Com		* † Chicago
Bell, John Haslett	Agr	71	* † Rushville
Bell, Lowell Emma	LAS		* † West York
Bell, Norma Elizabeth	LAS (SS)	107½	* † West York
Bell, Olive Edna	Mus		* † Elgin
Bell, Robert Daniel	Agr		* † Joliet
Bellamy, John William	AE	34	* † Sandoval
Belleff, Vladimir T	Agr	57	* † Stroumitsa, Bulgaria
Belle-Isle, Bertha	Mus		* † Champaign
Beloian, Haig	Agr		* † Sivas, Turkey
Bench, Stella Louise	SS	89	* † Galena
Benedict, Ralph Preston	Com	10½	* † Omaha, Nebraska
Benham, Norman Beach	LAS	47	* † Crothersville, Indiana
Benjamin, Sadie Mary	LAS	120	* † Bloomington
Bennehoff, John Stanley	CE		* † Freeport
Bennett, Basil	Agr	65	* † Dudley
Bennett, Emil Cline	Agr	32	* † Dudley
Bennett, Marie	HSLAS (SS)	30	* † Champaign
Bennett, Parker William	Com	32	* † Metcalfe
Bennett, Wayne Roselyn	Com		* † Washington
Bennett, William Lee, A.B., 1902	Agr		* † Urbana
Benson, David Sol	MdE		* † Indianapolis, Indiana
Benson, Elmer Bernhard	SS	8	* † Rock Island
Benson, Eugene LeRoy	CE	36	* † Batavia
Benson, Lois Pope	SS	81	* † Herrin
Benthien, Hans J	Agr sp		* † Tacoma, Washington
Bentley, Beulah Beatrice	LAS (SS)	53	* † Clinton
Bentley, Bruce	SS		* † Hampton, Virginia
Bentley, Howard Hutson	LAS		* † Clinton
Benton, Curtis	LAS		* † Bushnell
Berg, Arvid Henry	MdP		* † N. Crystal Lake
Berg, Fred Leonard	Com	54	* † Moline
Bergen, Esther Lou, A.B., (James Millikin University) 1913	Lib		* † Springfield
Berger, Cora	LAS	65	* † Davenport, Iowa
Bergeson, J. Melvin	AE	50½	* † Earlville
Bergman, Robert	EE	41	* † Chicago
Beringer, Uriel Barto	Com		* † Hampton, Iowa
Berlin, Harold Robert	Arch	5	* † Chicago
Bernard, Clifford Shaffer	Arch	95½	* † Willman, Iowa
Berner, Louis Roland	ChE	67	* † Indianapolis, Indiana
Bernhardt, Wilbert	CE		* † South Bend, Indiana
Bernhisel, Luther Melanethon	CE		* † Evanston
Bernstein, Charles	EE	21	* † Chicago
Bernstein, Martin	CE	75	* † Chicago

Berryman, Orus Kenneth	LAS sp		* †	Scotville
Berryman, Paul Ruytter	Com	66	* †	Downers Grove
Bess, Stanley John	ME	102½	* †	Rosemond
Best, Chester Lawson	SS	15		Boswell, Indiana
Best, Leon Henson	Com	66	* †	Galva
Betz, Roscoe Richard	Com		* †	Oswego
Beust, Carl	Agr	50	* †	La Crosse
Bibo, Anna Mary	SS	6		Peoria
Bickel, John Joseph, Jr.	Arch	36	* †	Chicago
Biedermann, Edward Adolph	Agr		* †	Oak Park
Bierbaum, Elmer Alfred	Agr	72	* †	Allon
Biesecker, Hiram Lewis	LAS		* †	White Heath
Bigel, William, Jr.	Agr.	120	* †	Chicago
Bigelow, Lorene Edith May	Mus sp		* †	Westfield
Bigelow, Roy St. Lawrence	REE	99	* †	Chicago
Bilderback, Gordon Butler	Com		* †	Champaign
Bilik, Samuel	Med sp	39½	* †	Franklin Park, New Jersey
Billman, Dale	MDP	27		East St. Louis
Binder, George Frederick	Agr (SS)	93	* †	Aurora
Bing, Bertha Helen	LAS (SS)	80	* †	Urbana
Bingham, William Frederick	SS	13½		Wichita, Kansas
Birchard, John Wesley	ChE	89	* †	Urbana
Birchard, Leola Mary	HS Agr	62	* †	Urbana
Birdzell, William Isaac	Agr (SS)	58	* †	Neoga
Birks, John Milton	Agr	61	* †	Cornland
Bisbee, Eleanor	SS	6		Arlington Heights, Mass.
Bishop, Blanche	Mus		* †	Danville
Bishop, Walter Giles	Arch	34	* †	Auburn, Indiana
Bitter, Hubert Cecil	Com		* †	Chicago
Bivens, Jefferson Davis	SS	6½		Tulia, Texas
Black, Absolom Bradley	SS	9		Eldred
Black, Albert Gain	Agr	20	* †	Mapleton
Black, Beryl A	LAS (SS)	20	* †	Paris
Black, Robert Sommerville	ME	104	* †	Menola
Blackburn, Frederick Jackson, B.S., 1914	SS			Hillsboro
Blackstone, Abraham	CE (SS)	76	* †	Chicago
Blackstone, Henry	Chem		* †	Chicago
Blackwell, Maud Gwendolyn	SS			Atwood
Blauer, Herbert Spencer	MSE		* †	Carlinville
Blair, Daniel Augustus	LAS	33	* †	Murphysboro
Blair, Ralph Pratt	Agr sp		* †	Kewanee
Blatchford, Charles Lord	LAS		* †	Chicago
Bleamaster, Wilfred C	SS			
Bliss, Stanley Waters	Arch	33	* †	Little Rock, Arkansas
Blix, Einar Thomas	AE	91½	* †	Fargo, North Dakota
Block, Frieda Emma	Mus	87	* †	Champaign
Blohm, George Charles	LAS (SS)	116½		Chicago
Bloodgood, Owen	Com		* †	Aurora
Bloodgood, Wylie	Arch	35	* †	Aurora
Bloom, Peter Earl	Agr sp	49	* †	Caddo, Oklahoma
Bloom, Ralph Merrill	EE		* †	Chicago
Bloomfield, Alice Sayers	LAS (SS)		* †	Urbana
Bloomfield, Leonard	SS			Elkhart, Wisconsin
Blue, Glenn Noble	LAS			Urbana
Bluestein, Irwin Jerome	Agr	32	* †	Chicago
Bluhm, Harold John	ChE	111	* †	Chicago
Blum, Harry John	Com	56	* †	Chicago
Boardman, Curtis Love	Arch	71	* †	Hoopeston
Bock, Lawrence Palmer	ChE		* †	Fairbury
Bodenschatz, Arthur H	ME	40	* †	Chicago
Boehmer, Louise	HS LAS	58	* †	Springfield, Missouri
Boellner, Virginia Mildred	Com		* †	St. Louis, Missouri
Boerner, Eugene S	Agr (SS)	103	* †	Cedarburg, Wisconsin
Boeschstein, Charles Krome	LAS		* †	Edwardsville
Boeschstein, Harold	Com	69	* †	Edwardsville
Boghigian, Khorene	MDP			Erzurum, Khi, Armenia
Bogue, Arthur Reuben	Med	65	* †	Dubuque, Iowa
Bohannon, Francis Charles	SS	3		Norton, Virginia
Bohn, Elizabeth Hallam	SS	33½		Centralia
Bohn, Gerhardt Herman	ME	2	* †	Lockport
Bohrer, William Leroy	Com	29	* †	Falls City, Nebraska
Boice, Milford Coats	EE		* †	Champaign
Bolen, Mabel Helen	LAS	66	* †	Kansas City, Missouri
Boles, Stanley Atwood	SS	7½		Williamstown, Kentucky
Bolger, Clarence James	EE		* †	Woodstock
Bollman, Jesse Louis	Med	84	* †	Springfield
Bollman, Marie Christine	SS	12		Champaign
Bolton, Ralph Waldo	EE (SS)	87½	* †	Champaign
Bolton, Wyman Jesse	ME	72	* †	Nawoo
Bon Durant, Walter Houton	Com	74	* †	Mishawaka, Indiana
Bone, George Dewey	Agr	31	* †	Homer
Bonnen, Clarence Alfred	Agr	51		Gibson City
Bonner, Arthur Lee	SS	3		Champaign
Booth, Earl Francis	Agr	24		Gardner
Booth, Lyman	Agr	101½	* †	Marshall

Borah, Loco Wilson	Com	68	* †	Urbana
Borders, Horatio Abbey	Com		* †	Chicago
Borg, Elmer Ambrose	Agr	60	* †	Stanton, Iowa
Borgemeier, Caspar Oscar	Com		* †	Edwardsport, Indiana
Borman, Mabel Mae	LAS (SS)	96	* †	Morrison
Born, Charles Edgar	Agr	67	* †	Cerro Gordo
Born, Ferdinand	Com		* †	Indianapolis, Indiana
Born, Katherine Lois	HSAgr	105½	* †	Champaign
Born, Ray	Com	67½	* †	Champaign
Borton, Cecil Walden	Com	99	* †	Urbana
Borucki, Louis F	ME	68	* †	Chicago
Bosart, Hugh Allen	Com		* †	Olney
Boston, Paul McConley	Com	93	* †	Yorkville
Bosworth, Howard Ralph	EE		* †	Marseilles
Bosworth, Walter Henry	Com	64	* †	Elgin
Boudinot, Raymond	Com		* †	Davenport, Iowa
Bowditch, Fred Tryon	EE	36	* †	Urbana
Bowditch, Harvey Russell	LAS		* †	Urbana
Bower, Harriet Jean	HSLAS		* †	Urbana
Bower, Paul Eugene	Agr	102	* †	Urbana
Bower, Raymond Gladstone	ME		* †	Urbana
Bowersock, William Michael	EE	43	* †	Maroa
Bowler, Jeannette Johnson	LAS		* †	Freeport
Bowles, Frank Edward	LAS		* †	East St. Louis
Bowles, Walter Sheriff	MSE	36	* †	Springfield
Bowman, Emily Maurine	LAS (SS)	94½	* †	Piercelton, Indiana
Bowman, John Evans	CerE		* †	East St. Louis
Bowman, Mabel	LAS	95	* †	Danville
Bowman, Newell	ChemE		* †	Carrollton
Boyd, Ernest Roy	AE	32½	* †	Pingree, North Dakota
Boyd, Lulu Stella	SS			
Boyd, Marian Cummings	LAS	99	* †	Sheffield
Boyd, Richard Ray	Arch		* †	Pingree, North Dakota
Boyd, Thomas Alexander	Com		* †	Lewistown
Boyd, William Ralph	Agr		* †	Gays
Boyer, Clarence Valentine, Ph.D.	Mus sp		* †	Urbana
Boyle, Esther Hortense	HSAgr	67	* †	Hennepin
Boyle, John Russell	ME		* †	Chicago
Boyle, Ruth Frances	LAS		* †	Stonington
Boyle, Violet Beatrice	HSAgr	31	* †	Hennepin
Boynton, Reuben Riley	Agr sp		* †	Pleasant Plains
Brabrook, Arthur Nelson	Com		* †	Oak Park
Bracken, Dwight Funk	Agr		* †	Bloomington
Bradbury, Marie Margaret	HSLAS		* †	Urbana
Bradley, James Wallace	Com	25	* †	Centralia
Bradley, LeRoy	Arch	108	* †	Fl. Wayne, Indiana
Bradley, Loyd	Law	103	* †	Carbondale
Bradley, Lucile	Law	105	* †	Carbondale
Brady, George Keyports	SS			Brooklyn, New York
Brady, John Charles	Agr		* †	Amboy
Brady, May Frances	LAS	31	* †	Champaign
Brain, Oliver Galbraith	EE	68	* †	Chicago
Brainard, Margaret	SS	8	* †	Metropolis
Brame, Millard Everett	Agr		* †	LeRoy
Bramlet, Hubert Butler	LAS	103	* †	Eldorado
Brams, Julius	MdP	38	* †	Chicago
Branch, William Ralph	Agr	100	* †	Champaign
Brand, Marjorie Lilah	LAS	85	* †	Normal
Brandon, Eugenia Josephine	LAS	97	* †	Farmer City
Brandt, Richard Clarence	ME	66	* †	Evanston
Branham, Marcus Huber	ME		* †	Urbana
Bratten, Arno	SS	28½	* †	Creal Springs
Brauer, Henry Ernest	ChemE		* †	Red Bud
Brauer, Magdalene Anna	SS	7	* †	Red Bud
Braun, George, Jr.	Arch	35½	* †	Chicago
Braun, Richard George	AE	94	* †	Hamilton, Ohio
Brauns, Helen Marie	HSLAS	32	* †	West Chicago
Braunsdorff, Reginald Kenneth	EE (SS)	71	* †	Mattoon
Bray, Eugene Carter	ChE		* †	Elizabeth
Bray, Leonard Theodore	Arch	20	* †	Ironwood, Michigan
Brazeau, Eugene Francis	Com	93½	* †	New York, New York
Brazeau, Guy Stanton	LAS	19	* †	Nekoosa, Wisconsin
Brazelton, Calanthe Miriam	LAS (SS)	66	* †	Greensburg, Indiana
Brazelton, Florence Carter	SS	4	* †	Greensburg, Indiana
Breathwit, Rachel Augusta	LAS		* †	Little Rock, Arkansas
Brede, Erwin Charles	Arch		* †	Collinsville
Brede, Lothar Homer	Chem	68	* †	Collinsville
Breece, Howard David	LAS	59	* †	Mt. Vernon, Indiana
Bregman, Walter Isadore	Com		* †	Chicago
Bremer, Abraham Meyer	Com	30	* †	DePue
Brennan, James Thomas, Jr.	CE		* †	St. Louis, Missouri
Brennan, Wintress	Lib	33	* †	Ogden
Brennerman, Charles Gage	SS	132½		Cairo
Brewbaker, Harvey Edgar	Agr	46	* †	Bardolph
Brewer, Clara Lucile	SS	3		Urbana

Brewster, Harold Spencer	Agr (SS)	70½	* † Clayton
Brewster, William Goddard	Com		* † Chicago
Breyfogle, Ruth Edith	LAS	34	* † Crown Point, Indiana
Brian, Lucia Beatrice	LAS		* † St. Francisville
Brickhouse, Linwood Leonard	LAS		* † Little Rock, Arkansas
Bridson, Myrtle Lillian	HSAgr		* † Brimfield
Briggs, Ben Herbert	Com	46½	* † Minier
Briggs, Flora Bernice	HSAgr (SS)	103	* † Champaign
Briggs, Thomas Howard	SS	5	* † Payette, Missouri
Brigham, Erwin Risley	Com	72	* † Chicago
Brinkerhoff, George Norman	LAS (SS)	53½	* † Springfield
Brinkman, Richard Joseph	Agr		* † Terre Haute, Indiana
Bristol, Robert Stafford	Com		* † Chicago
Bristow, George Washington	SS	131	* † Metropolis
Britt, Charles Allen	Agr	105	* † Ogden
Britt, Marie Anne	HSLAS		* † Freeport
Britt, Raymond Lewis	LAS	77	* † Freeport
Brittin, William Allan, Jr.	Agr	99	* † Virden
Britton, Joseph Walter	Chem		* † Rockville, Indiana
Britton, Orville Stuart	SS	7½	* † Viola
Broadhurst, Maury Elizabeth	HSLAS (SS)		* † Champaign
Broadwell, Agnes Marie	HSLAS	64	* † Fairbury
Brock, Elmer Lorin	SS	24½	* † Jeffersonville
Brock, Thomas Hugh	Agr	35	* † Waynesburg, Pennsylvania
Brockmeier, Angelina Louise	HSLAS	102	* † Freeport
Brockmeier, Martha Matilda	HSLAS	27	* † Freeport
Brodbeck, Mary			
B.S. (Northwestern University), 1916	HSLAS		* † Los Angeles, California
Brodfehrer, Fred Michael	Agr	34	* † Chicago
Brolin, Marion Theodora	HSLAS	59	* † Rockford
Bromm, Alvin Carl	Agr	73	* † Evansville, Indiana
Bronson, Paul Jones	MdP	33	* † Terre Haute, Indiana
Brook, Clarence Louis	EE		* † Urbana
Brooks, Charles Campbell	Agr	71½	* † Kansas City, Missouri
Brooks, Charles Wayland	Com		* † Wheaton
Brooks, Eula Margaret	HSLAS (SS)	62	* † Urbana
Brooks, Frederick Augustus	EE (SS)	11½	* † Urbana
Brooks, Hattie Estella	HSLAS		* † Colorado Springs, Colorado
Brooks, Joseph Chaney	Agr	29	* † Forreston
Brooks, Viola	LAS	94	* † Urbana
Broshar, Helen	LAS		* † Champaign
Brown, Allen Brookins	LAS	102	* † Phoenix, Arizona
Brown, Albert Willard	SS	134½	* † Tiffin, Ohio
Brown, Bruce Keith	ChE	41	* † Wilmette
Brown, Carter Pennell	Agr	90	* † Normal
Brown, Chester Galen	Agr sp		* † Elwood
Brown, Clarence Raymond	Com	24½	* † Glencoe
Brown, Dayton Reginald Eugene	Arch	50	* † Chicago
Brown, Dorothy Sargent	HSLAS	98	* † Geneseo
Brown, Edward Tilden	ME	28	* † Batavia
Brown, Elmer Clay	ME		* † Champaign
Brown, Elmer Ellsworth	Agr	73	* † Noblesville, Indiana
Brown, Era David	Com		* † Urbana
Brown, Grace Voris	LAS	31	* † Findlay
Brown, Harlow Wood	Agr	100	* † Modesto
Brown, Helen Dorsey	Agr sp	113	* † Chicago
Brown, Irwin Tucker	Com	59	* † Evanston
Brown, James Lafferty	Com		* † Peoria
Brown, John Lawrence	Com	103	* † Tiskilwa
Brown, John Lyman	ChE	95	* † Anderson, Indiana
Brown, John Phineas	Com		* † Wapello, Iowa
Brown, Julius	RCE	91	* † Chicago
Brown, Lawrence Leo	EE		* † Stonington
Brown, Leah C	SS	58½	* † Hillsboro
Brown, Lewis Hallet	Agr	16	* † Delavan
Brown, Lloyd Waitfield	Agr	½	* † Decatur
Brown, Lorene	LAS		* † Genoa
Brown, Lydia Louise	LAS		* † Ridgely
Brown, Marjorie	SS	6½	* † Kewanee
Brown, Paul Maurice	Com	21	* † Nokomis
Brown, Ralph Hadden	Agr		* † Culler
Brown, Ralph Newton	Agr		* † Greensburg, Indiana
Brown, Ralph Powers	CE	128	* † Chicago
Brown, Tom	AE (SS)	105	* † Winnetka
Brown, Vergil Neal	LAS	64½	* † Joliet
Brown, Verla Lillian	HSLAS		* † Wheaton
Brown, Victor Israel	SS	8	* † Oblong
Brown, Walker William	Agr	31	* † Quincy
Brown, William Homer	CE		* † Sycamore
Browne, Kathryn Eleanor	Mus (SS)	138	* † Chicago
Browne, Richard Jerome	EE		* † Waukegan
Browne, William Harcourt	LAS	65	* † Chicago
Brownfield, Georgia	HSAgr (SS)	97	* † Urbana
Browning, John Roy	Law		* † Golconda
Browning, Thomas Samuel	CerE	102	* † Benton

Brownstein, Harry Joe	ChE		* † Chicago
Bruner, Georgia Faye	LAS	31	* † Eldorado
Bruner, Nellie	LAS		* † Danville
Brunker, Edith Winifred	Agr sp		* † Riley, Indiana
Brunkow, Norman Ferdinand, A.B., 1914	AL		* † Dubuque, Iowa
Brunnemeyer, Henry Raquet	Agr		* † Aurora
Bruns, Clansy Leslie	EL	36	* † Harrisburg
Brunskill, Eylar William	Agr	99	* † Pontiac
Brutus, Carl Russell	ME sp	29	* † Champaign
Brya, Edward Gunning	Agr	73½	* † Tolono
Brya, Edward Lewis	Mus sp		* † Tolono
Brya, Francis Erle	Com	18	* † Tolono
Brya, Leo Edward	Agr sp		* † Champaign
Bryan, Sarah Elizabeth, A.B., 1908; B.L.S., 1910	Mus		* † Champaign
Bryant, Mrs. Lela Crouch	Mus		* † Shelbyville
Bryant, Louis Ralph	Agr	46½	* † Princeton
Bryant, Lyle	Chem	16	* † Clinton
Bryant, Robert Alfred	Com	71	* † LaGrange
Buchanan, George Victor, Jr.	LAS (SS)	29	* † Oklahoma City, Oklahoma
Buchanan, Richard Bell	Agr (SS)	116	* † Oklahoma City, Oklahoma
Buchon, Helen Louise	LAS	71	* † Montello, Wisconsin
Buck, Harold Philbrick	Arch	46	* † Chicago
Buckler, Helen Irene	LAS	2	* † Champaign
Buckler, Joseph Bruce	LAS (SS)	67	* † Metcalf
Buckner, Dorothea Aurora	LAS		* † Newark, New York
Bucky, Philip Barnett	MinE		* † Chicago
Buehler, Albert Carl	Agr	31	* † Chicago
Buell, Charles Clinton	LAS	82	* † Highland Park
Buffum, Mary Susie, B.Ph., (State University of Iowa), 1905	Lib		* † LeRoy, Iowa
Buhrman, Elaine Louise	LAS (SS)	103	* † Nashville
Buhrman, William	MEP		* † Nashville
Bull, Willard Edwin	EE	70	* † Elgin
Bullard, Charles Elworthy	Com		* † Maywood
Bullis, Mefflin Charles	Agr		* † Rollo
Bullock, Geraldine Salisbury	HSLAS	56	* † Tonica
Bullock, Otis LeRoy	Agr	23½	* † Elkhart, Indiana
Bumann, Albert Theodore	Chem	70	* † Litchfield
Bumgarner, Ruth Subina	LAS	99	* † McNabb
Bunting, Loyd Daniel, A.B., 1916	Law		* † Ellery
Burgan, Laverne	HSLAS	79	* † Champaign
Burgee, Joseph Zeno	LAS		* † Chicago
Burger, Albert Harold	Agr (SS)	105	* † Elgin
Burgess, Oscar William	LAS	67	* † Fairfield
Burgess, Robert Earle	LAS		* † Benton
Burgett, Charles Culbertson	Com	67	* † Newman
Burgston, Clyde Harold	Agr	98½	* † Moline
Burke, Edmund	Com	61	* † Milwaukee, Wisconsin
Burke, John Arthur	ME		* † Champaign
Burke, Mary Kathleen	SS		* † Carlinville
Burke, William Fogarty	Agr (SS)	65½	* † Lincoln
Burleigh, Inez Lillian	LAS	67	* † Crystal Lake
Burleson, Howard Chauncey	Com		* † Champaign
Burley, Paul Brown	EE		* † LaGrange
Burns, Owen McIntosh, A.B., 1916	Law		* † Danville
Burns, Ralph Francis	Com		* † St. Louis, Missouri
Burns, Valerie Irene	HSLAS	32	* † St. Louis, Missouri
Burnside, Karl Ackerman	AE	69	* † Orleans, Iowa
Burrell, Beulah	LAS (SS)	102	* † Effingham
Burres, Opal	SS		* † Urbana
Burris, Dorothy Dorsett	LAS		* † Roswell, New Mexico
Burton, Clifford Ketchum	LAS	97½	* † Oak Park
Burton, Malcolm Vreeland	ChE	29	* † Aurora
Burton, Richard Cole	Agr	24½	* † Richmond
Burwash, Grace Sarah	LAS	49	* † Champaign
Burwash, Lois Irene	SS		* † Champaign
Burwash, Louis Stephen	Agr	101	* † Champaign
Burwash, Lucie Pauline	HSLAS	34	* † Champaign
Burwash, Ruth Margaret	HSLAS	37	* † Champaign
Busey, Josephine Kathryn	LAS	110	* † Urbana
Busey, Margaret Jeannette	LAS		* † Urbana
Bush, Alexander T	Chem (SS)	68½	* † Glencoe
Bushing, Edna Louise	LAS		* † Chicago
Bushman, William Henry Harrison	LAS (SS)	55	* † St. Louis, Missouri
Russe, Edward Clarence	CE		* † Chicago
Butler, Allen Gilman	EE	71	* † Peoria
Butler, Jennie Rebecca	HSLAS	23	* † Lebanon, Indiana
Butler, Mary	SS		* † Cairo
Butler, Maude Marie	HSLAS		* † Chatham
Butler, Walter Carter	Agr (SS)	63	* † Chicago
Butler, William Glenn	SS		* † Cairo
Butterfield, Francis Eugene	EE	108	* † Belvidere
Butterfield, Janet Marie	HSLAS	32	* † Belvidere
Butzer, Goldia Grayce	LAS	46	* † Hillsdale

Buzzard, Guy Ashton	SS		Bloomington
Byers, Bessie	SS		Charleston
Byers, Donald Morrison	Chem	* †	Garrett, Indiana
Byers, Edwin William	AE	52	* † Harvey
Byers, Louis Leslie	CerE	97	* † Philadelphia, Pa.
Byrne, Susanne Marie	LAS		* † Chicago
Cable, Merwyn Harden	Com (SS)	30½	* † McAllen, Texas
Cade, Harriet Clark	LAS	60	* † Veedersburg, Indiana
Cadisch, Gordon Francis	Agr	106	* † Cleveland, Ohio
Cagann, Oscar William	ME		* † Champaign
Cahill, Charles Adams, Jr.	AE		* † Milwaukee, Wisconsin
Cahill, Nellie Walsh	SS	6	* † Waterloo
Calderwood, Sarah Ruth	HSLAS	24	* † Grinnell, Iowa
Caldwell, Addie Leyrea	LAS		* † Columbia, Missouri
Caldwell, George Harold	Agr	26½	* † Chicago
Caldwell, Henry Bancroft	Agr sp		* † Tocomo, Washington
Caldwell, Mary Lathrop	LAS	61	* † Champaign
Caldwell, Neal Willard	Com (SS)	2	* † Champaign
Caldwell, Ruth Marie	LAS (SS)	100	* † Milford
Caldwell, Walter R	LAS	66½	* † Fairfield
Calendar, Lillian Madeline	SS		* † Urbana
Calhoun, Preston Browne	Agr	95½	* † Glencoe
Calkin, Charlie James	ME	70	* † Crescent City
Calkins, Robert Grant	AE		* † Joliet
Calvin, Benjamin Willis	LAS	37	* † Washington, D. C.
Cameron, George Martin	Agr	72	* † Carpentersville
Cameron, William Ray	ME	5	* † Galesburg
Camp, Chester Bennett	CE		* † Decatur
Camp, Warren Fordyce	Agr		* † Ancona
Campbell, Carlos Elmer	Agr		* † White Hall
Campbell, Carlos Willbur	Com	30	* † Virginia
Campbell, Charles Warren	Mine	111	* † Coal City
Campbell, David Joseph, B.S., 1916	SS	64	* † Urbana
Campbell, Dewey Muscott	LAS		* † San Bernardino, California
Campbell, Douglas Seidmore	Com	15	* † Cleveland, Ohio
Campbell, Duncan McEvoy	CE	127½	* † Chicago
Campbell, Ella Seaver	Lb	35	* † Urbana
Campbell, Ethelred Erasmus	Chem	68½	* † Jamaica, B. W. I.
Campbell, Florence Maud	LAS	115	* † Tolono
Campbell, George Albert	Law	28	* † Lead, South Dakota
Campbell, Glenn	LAS		* † Tulsa, Oklahoma
Campbell, Grace Minnie	Mus sp		* † Tolono
Campbell, John Parsons	ChE		* † San Dimas, California
Campbell, Marshall	Com	64	* † Chicago
Campbell, Marvenc	Mus sp		* † Bethany
Campbell, Mason Herbert	Agr (SS)	105	* † Valparaiso, Indiana
Campbell, Nelson Wellesley	Com		* † Coal City
Campbell, Nigel Dovell	LAS		* † Albion
Campbell, William Franklin	Agr	99	* † Urbana
Canaday, Alice Creighton	LAS	75	* † Chicago
Canaday, Sophia Matilda	LAS	63	* † Chicago
Canine, Ione	SS	15	* † Sheldon
Cannon, Lester Cloyd	Agr	31	* † Tower Hill
Cannon, Opal	LAS		* † Jamaica
Cannon, Tyronne Murphy	ME	107½	* † Rapatee
Canon, Charles Coulson	Agr	106	* † San Angelo, Texas
Canter, Edna Maloy	LAS	12	* † Champaign
Carbaugh, Philip Ward	Law	68	* † Rockford
Carey, Charles Edwin	Com		* † Crystal Lake
Carley, Paul Sterling	MdP (SS)	91½	* † Buckley
Carlsen, Ralph Armond	Com	35	* † Chicago
Carlson, Alice Mae	LAS	27	* † San Diego, California
Carlson, Ansgar Lilius	Agr	101	* † Batavia
Carlson, Arthur George	Agr		* † Rockford
Carlson, Carl Bernard	CE	70	* † St. Charles
Carlson, Harry Leonard	Agr	107	* † LaSalle
Carlson, Helen Marie	LAS	32½	* † Chicago
Carlson, Richard John	Arch	35	* † Chicago
Carlson, Winifred Jean	LAS		* † Chicago
Carlstrom, Glenn Prentiss	MdP		* † New Burton
Carlton, George Alexander	ME	-1	* † Chicago
Carman, Charles MacArthur	ME	36	* † LaSalle
Carman, Elinor Louise	HSLAS		* † LaSalle
Carman, Florence	HSLAS	66	* † Goodwine
Carney, Sidney Sylvester	Agr	45	* † Steward
Carr, Harris	Com		* † Tipton, Indiana
Carr, Kenneth Wright	AE	68½	* † Oak Park
Carr, Vernon Wesley	Com	95	* † Denison, Iowa
Carrier, Earle Wesley	CE	76	* † Chicago
Carrithers, Henry Havens	Agr	64	* † Hudson
Carroll, Alfred Bailey	Arch	38½	* † Oak Park
Carroll, Charles Jr.	Com	31½	* † Shawneetown
Carroll, Gladys Ethelyn	SS		* † Chillicothe
Carroll, James Bernard	Arch	117	* † Bradford
Carroll, Jean Paul	Agr sp		* † Mendota

Carson, Charles Eilert	LAS		* † Mt. Carmel
Carson, Mary Edith	LAS		* † Sabina, Ohio
Carson, Natalia Margaretta	LAS	93	* † Chicago
Carter, Alice, A.B., 1915	LAS		* † Evanston
Carter, Benjamin Franklin	CerE	67	* † Peoria
Carter, Charles Shelby	Agr		* † Owensboro, Kentucky
Carter, Floyd	Agr (SS)	59	* † Clinton
Carter, Frank Stanley	EE		* † Litchfield
Carter, Wilbur Maxwell	Arch	35	* † Indianapolis, Indiana
Carthaus, William James	Chem		* † St. Louis, Missouri
Cartland, Silas	EE		* † Pontwater, Michigan
Carvalho, Romen de Souza	Agr		* † Rio de Janeiro, Argentina
Carver, Frederick Elmer	Agr		* † Berwyn
Cary, Malcolm Combs	ME (SS)	54	* † Oak Park
Caskey, Arthur David	EE	36	* † Chicago Heights
Cassella, William Nathan	ME	35	* † Alton
Cassidy, Grathan George	Arch	29½	* † Champaign
Castendyck, Charles Hamil	Com	27	* † LaSalle
Castle, Drew William	ME	105	* † Gridley
Castle, Ervin H.	Agr sp		* † Ridgefarm
Castle, Ora Blanche	Mus sp	28	* † Urbana
Castle, Richard Lloyd	Com	50	* † Urbana
Cather, LeRoy Heywood	AE	33	* † Canton
Catlett, Kemp Roubush	Com		* † Fairmount
Catlin, Virgil Glenn	SS	7½	* † Monmouth
Cattermole, Edwin Lowell	LAS		* † Chicago
Catton, Miles Dewey	CE		* † Toulon
Cauble, Helen Frances	SS	22	* † Champaign
Cavanaugh, Marie Elizabeth	LAS	30	* † Urbana
Cavette, Francis Erle	Com	102½	* † Lacon
Cecil, Lawrence Keith	Chem (SS)	61½	* † Champaign
Center, Donald Dewey	Agr		* † Quincy
Cermak, Joseph Julius	ME	21	* † Chicago
Cessna, Evelyn Mildred	MdP		* † Oak Park
Cessna, Robert	Agr	60½	* † Danville
Chabot, Bernice	HS Agr	58½	* † Kankakee
Chabot, Kathleen Martin	HS LAS	98	* † Kankakee
Chacaroff, Kotzousha	Agr sp		* † Macedonia
Chadderdon, Alvin Wayne	Agr	33	* † Adair
Chadderdon, Neva Mae	LAS		* † Adair
Chadwick, Marcus	LAS	87	* † Shelbyville, Indiana
Chakravart, Akhil Chandra	ME	35	* † Bengal, India
Chalcraft, Delos Maurice	Agr	70	* † Albion
Chalcraft, Lloyd Walton	Agr	117	* † Albion
Chalstran, Arthur Blaine	Agr		* † Galesburg
Chamberlain, Richard Harris	Com	68	* † Peru, Indiana
Chambers, Roy Ellsworth	Arch	47	* † Chenoa
Chan, Ye Young	LAS	59	* † Kowloon, China
Chandler, Edward Charles	LAS	46½	* † Flora
Chandler, Leslie George	Chem	24	* † Hinsdale
Chang, Ju Shen	Com (SS)	96	* † Bridgeport, Connecticut
Chang, Tze Li	CE	114	* † Washington, D. C.
Chang, Wei Ju	Chem (SS)	5	* † Peking, China
Changnon, Robert Donald	REE		* † Kankakee
Chant, Douglas George	Agr		* † Elmhurst
Chapman, Donald Vanderburg	Agr	69	* † Evanston
Chapman, Ethel Lucinda	LAS	60	* † Springfield
Chapman, Harry Albert	Agr	34	* † Raymond
Chapman, Harry Henderson	ME	38	* † Hinsdale
Chapman, Pleasant Thomas, Jr.	Com		* † Vienna
Chapman, Samuel	Com		* † Sterling
Chapman, Thomas White	SS	130	* † Belvidere
Chappelcar, Claude Simpson	Agr	90½	* † Greenville
Charles, Andrew Hoyle	CerE		* † Chicago
Charleston, Verne DeVere	ChE	66	* † Peoria
Charlet, Louis Walter	ME		* † Kewanee
Charpier, Leonard Louis	MdP	39	* † Chicago
Chase, Fay Harold	EE		* † River Forest
Chase, Joseph Harold	Agr	33	* † Toulon
Chasc, Katherine Trusdell, A.B., 1914	SS	138	* † Urbana
Chen, Jung Ting	Agr	70	* † Washington, D. C.
Chen, Queh King	SS		* † Sonzu City, Hunan, China
Chen, Shao Shun	Agr (SS) sp	38	* † Washington, D. C.
Cheng, Fo Hung	SS	32	* † Shanghai, China
Chenoweth, Leland Frank	MdP	29	* † Mason City
Cherry, Oscar Allen	Chem	58½	* † Pawnee
Chesley, Anne Dictsen	LAS		* † Urbana
Chessman, Samuel Craig	CE		* † Salem, Ohio
Chester, Jamie Margaret	HS LAS	33	* † Champaign
Chester, Margaret Belle	SS		* † Champaign
Chiang, Yu Ying	LAS		* † Tsang Loag Hong, Szechwan
Chilcott, Edith Grace	SS		* † Morrisdale, Pennsylvania
Childs, James Bennett	LAS (SS)	77	* † Shobonier
Chiles, Edna Alice	Mus	25	* † Champaign
Chiles, Howard Marion	ChE (SS)	122½	* † Champaign

Chioco, Juan Ortiz	<i>Agr</i>	85	* †	Philippines
Chipp, Mabel Blanche	<i>HSLAS</i>		†	Sullivan
Chisum, Oscar Clifton	<i>LAS</i>	20	* †	Little Rock, Arkansas
Chittenden, Robert Mearle	<i>CerE</i>	106	* †	Brookfield, Missouri
Chittum, Stella Mae	<i>SS</i>	8		Sorento
Chmelik, Frank, Jr.	<i>Agr</i>	18½	* †	Chicago
Choisser, William Carl	<i>Law</i>	84½	* †	Benton
Choy, Bung Chew	<i>CE (SS)</i>	60	* †	Honolulu
Christ, George Phillip	<i>ChE</i>	70	* †	Quincy
Christ, Robert Johnson	<i>CE</i>		* †	Chicago
Christen, Lester Howard	<i>AE</i>	68	* †	Elgin
Christensen, Hildegard Amy	<i>LAS sp</i>		* †	Chicago
Christensen, Paul Galen	<i>Arch</i>	34	* †	Menominee, Michigan
Christian, William Earl	<i>EE</i>		*	Trenton, New Jersey
Christie, James	<i>SS</i>	46		Rantoul
Christopher, Arthur Bailey	<i>CerE</i>	93	*	Canton
Christophersen, Stanley Marinus	<i>EE</i>	87	* †	Rockford
Christy, Glen, B.Mus., 1915, A.B., 1916	<i>SS</i>	175½		Harrisburg
Christy, Grace Jean	<i>HSLAS</i>	68	* †	Urbana
Chritton, Ernest Fairfax	<i>ME</i>		* †	Oak Park
Chu, Ling	<i>ME (SS)</i>	33	* †	Peking, China
Chumley, Edith Bland	<i>SS</i>	23½		Springfield
Church, Leroy	<i>EE (SS)</i>	110	* †	West Chicago
Churchill, Fred Weaver	<i>Agr</i>	49	* †	Fairbury
Churchill, Nellie Elizabeth	<i>SS</i>			Peru
Churchill, Woodford McDowell	<i>Agr</i>	31	* †	Fairbury
Churton, Florence Helen	<i>HSAgr</i>	103	* †	Plainfield, New Jersey
Cierpik, Casimir Stanley	<i>ME</i>	74	* †	Chicago
Ciha, Louis Albert	<i>EE</i>		* †	Chicago
Cilley, Lillie	<i>Lib</i>	33	* †	Independence, Iowa
Cinnamon, Floyd Franklin	<i>EE</i>	45	* †	Crete
Clanahan, Walter Hamilton	<i>Com</i>		* †	East St. Louis
Clancy, Frank Bailey	<i>MdP</i>		* †	Chicago
Clarahan, Charles Henry	<i>RCE</i>	78	* †	Oak Park
Clarahan, Lewis Arthur	<i>Com</i>		* †	Oak Park
Clarida, Troy Wayne	<i>Agr</i>	104	* †	Marion
Clark, Albert LeRoy	<i>Agr</i>	69	* †	Chicago
Clark, Bayard Hand	<i>Agr</i>	156½	*	DeKalb
Clark, Bruce Byrne	<i>Agr</i>		†	Peoria
Clark, Charles M.	<i>RME</i>	111	* †	West Chicago
Clark, Chester Nicholas	<i>EE</i>		* †	Champaign
Clark, Frank Roundy	<i>ChE</i>	35	* †	Wheaton
Clark, Harold Dean	<i>LAS</i>		* †	Hinckley
Clark, Harold Lyman	<i>Arch</i>	80	* †	Minneapolis, Minnesota
Clark, Harry Cecil	<i>Agr</i>	21	* †	Champaign
Clark, Hester	<i>SS</i>	6		Westville
Clark, James Glen	<i>Com</i>	69	* †	Moweaqua
Clark, Kenneth Walker	<i>Agr</i>		* †	Tindenwood
Clark, Lloyd Talbert	<i>Agr</i>		* †	Kinderhook
Clark, Margaret	<i>Agr</i>	62	* †	Peoria
Clark, Marion Almeda	<i>Com</i>		* †	Elgin
Clark, Marshall Grant	<i>Agr</i>	65	* †	Carthage
Clark, Mary Chase	<i>MdP</i>	20	* †	Peoria
Clark, Reid William	<i>Agr</i>	77½	* †	Attica, Indiana
Clark, Roy Leslie	<i>Agr sp</i>		* †	Moweaqua
Clark, Stuart McCullough	<i>Agr</i>		* †	Carthage
Clark, Thomas Edward	<i>ME</i>	33	* †	Indianapolis, Indiana
Clark, Welford Dickson	<i>ChE</i>		* †	Chicago
Clarke, Helen Beulah	<i>Mus</i>	165½	* †	Champaign
Classon, Lyle Jay	<i>ME</i>		* †	Ottawa
Clears, Harry Loomis	<i>Com</i>	32	* †	Kewanee
Cleary, Bonnie	<i>Agr</i>		* †	El Paso
Clegg, Carl	<i>ME</i>	72	* †	Chandlerville
Clem, Orlie Martin	<i>LAS</i>	68	* †	Benton
Clements, Esther	<i>Com</i>	97	* †	Champaign
Clements, Philip Louis	<i>Agr</i>	25	* †	Decatur
Cleve, Albert	<i>CE</i>	88	* †	Chicago
Cleveland, Arthur Mortland	<i>Com</i>	26	* †	Plymouth, Indiana
Cleveland, Chester Wilson	<i>LAS</i>		* †	Plymouth, Indiana
Cleveland, Warren Eddy	<i>ME</i>	73	* †	Rockford
Clevenger, Clinton B.	<i>LAS</i>		* †	Fletcher, Ohio
Cleworth, Clarence William	<i>CerE</i>	37	* †	Hartford, Michigan
Clifford, Woodridge Kenneth	<i>Agr</i>	34	* †	Arion
Cline, Albert Ross	<i>Agr</i>	26	* †	Rock Island
Cline, Marguerite Arabelle	<i>HSLAS</i>	32	* †	Urbana
Cline, Robert Nurse	<i>ME</i>		* †	Rock Island
Clingenpeel, Clarence Albertus	<i>SS</i>	6		Delphos, Kansas
Clorine, Irwin Bernard	<i>LAS</i>	31	* †	Chicago
Close, Arthur Buckley	<i>Agr</i>	67	* †	Chicago
Clover, Everett LeRoy	<i>Agr</i>		* †	Gardner
Coan, Ivan Walker	<i>Agr</i>		* †	Chatsworth
Cobb, Thomas H.	<i>SS</i>	15		New Burnside
Cobb, William Henry	<i>Com</i>	34	* †	Tipton, Iowa
Cochran, Florence Alwilda	<i>LAS</i>		* †	Champaign
Cochran, Russell William	<i>LAS</i>	84	* †	Champaign

Cochran, William John	Com		* † Sterling
Coe, Viola Margaret	LAS	65	* † Ridgefarm
Coffman, Ruth Eugene	HSLAS	30	* † Pana
Coggan, Kenneth Mills	MdP		* † Clay City
Conagan, Chester Willard	Com	25½	* † Sapulpa, Oklahoma
Cohen, Arthur Edward	Agr		* † Chicago
Cohen, Esther Dorris	LAS		* † Bridgeport
Cohen, Isadore Perry	CeE	26	* † Chicago
Cohen, Julius	LAS	101	* † St. Louis, Missouri
Cohn, Benjamin Emanuel	ChE	72	* † Chicago
Cohn, Max Jay	Agr		* † Chicago
Coile, Sam Henry	Arch	107½	* † Cookeville, Tennessee
Cole, Elwood Bourland	ME	33	* † Peoria
Coleman, Oren	SS	41	* † Carterville
Coley, Glen	LAS	129	* † Beardstown
Colgrove, Vivian Geraldine, A.B., (University of Minnesota), 1908	Lib	17	* † S. E. Minneapolis, Minnesota
Collier, Ethel Alice	LAS	99	* † Union Grove, Wisconsin
Collings, Elnor Dell	LAS	60	* † Spring Valley
Collins, Claude Delorum	LAS		* † LaMoille
Collins, Fred Adair	Agr	18	* † Evanston
Collins, Grace	LAS	96	* † Bloomington
Collins, Ina May	LAS (SS)	35	* † Hillsboro
Collins, Irvin Bliss	LAS (SS)	93½	* † Potomac
Collins, Julien Hampton	Com	29	* † Chicago
Collins, Lathan Hunter	CE	35½	* † LaMoille
Collins, Maurice Todd	Agr	5	* † Urbana
Colmey, Duane Campbell	LAS	73	* † Chicago
Colp, Logan N	MdP		* † Carterville
Colp, Ryburn Robert	MdP		* † Carterville
Colson, Robert John	Law	67	* † St. Charles
Colstock, Harry Edward	Agr		* † Bradley
Colton, Edwin Thome	MSE	107½	* † Kansas City, Missouri
Colton, Henry Richardson	ChE	34	* † Hinsdale
Colwell, Edmund Burroughs	Com		* † Monmouth
Colwell, Lyle Miller	EE		* † Ottawa
Colwell, William Tracey	CE		* † Ottawa
Comm, Albert Benjamin	AE	64	* † Chicago
Comstock, Chauncey Darling	Com	31	* † Chicago
Comstock, Keyon Phinister	Agr	29	* † Chicago
Conant, Lewis Jasper	LAS	59½	* † Denver, Colorado
Condon, Edith Frances	HSLAS	30	* † Sheffield
Cone, Russel Glenn	CE		* † Beardstown
Conefry, Hal Wynan	LAS	100	* † LeRoy
Conger, Almon Mortimer	ME	70	* † Elgin
Congleton, Frank Harold	Agr	63	* † Urbana
Conkey, Nellie	Mus sp		* † Homer
Conklin, Asa Bristol	Agr	69	* † Earlville
Conklin, Dorsey Tyler	Agr	49	* † Rockton
Conklin, Paul Stanley	ME	113	* † Roscoe
Conley, Mae	HSLAS		* † Sheldon
Conn, Agnes Ruth	HSLAS	60	* † Woodstock
Connell, David Evans	Com	50	* † Chicago
Connett, Wesley Leonard	Arch		* † St. Joseph, Missouri
Connor, John Hal	LAS	68	* † Newton
Conover, Harry Keith	Com sp		* † Tuscola
Conrad, Alma Bertha	SS	95½	* † Altamont
Conrad, Charles Smedley	ME	33	* † Sycamore
Conrad, Charles William	SS	6	* † Charleston
Conrad, Clyde Kenneth	MdP		* † Urbana
Conrad, Orien Ray	SS	38	* † Chester
Conser, Perry Edward	SS	6½	* † Alliance, Ohio
Consoer, George Otto	CE	112	* † Oak Park
Cook, Dorothy Elizabeth	Lib	33	* † Denver, Colorado
Cook, Eugene	CE	119	* † Odin
Cook, Howard Haydon	Com		* † Shelbyville
Cook, John Manchester	Com	68	* † Chicago
Cook, Morris Henry	EE	36	* † Greenup
Cook, Seymour Houghton	ChE		* † New York, New York
Cook, Stephen Wallace	Com	31	* † Evansville
Cooke, Herbert Lee	SS	4½	* † Bloomington
Cooke, Robert Howell	CE	28	* † Blairstown, New Jersey
Cooke, Russell Stewart	CE	36	* † Chicago
Cookson, Linn Palmer	CE	91	* † Carlinville
Cocley, Floyd Seyller	EE		* † W. McHenry
Cooley, Roy Claiborne	Agr	103	* † Clinton
Coolidge, Joseph Lexington	Com	38	* † East Cleveland, Ohio
Coolidge, William Francis	Agr	65	* † Bloomington
Cooling, Kenneth George	AE	63	* † Rockford
Cooper, Edwin Jonas	LAS	29	* † Cable, Wisconsin
Cooper, Henry Noble	LAS	73	* † Chicago
Cooper, James Richard	Agr		* † Aurora
Cooper, Leon Morton	ChE	108	* † Chicago
Cooper, Louis	EE		* † Chicago
Cope, Harold Fleming	LAS		* † Champaign

Cope, Louis Vaughan	Agr	100	* † Tonte
Copenhagen, Robert George	Agr	105	* † Polo
Copes, Ira Otho	Agr		* † Green Valley
Corbett, Esther	Agr		* † Edwardsville
Corbin, Ashford Frank	AE		* † Aurora
Corcoran, Anna Elizabeth	SS		Morrison
Corcoran, Katharine	SS	16	Galena
Cord, Joy Sylvia	HSLAS		† Sidney
Cordell, Della Grace	Mus (SS)	99	* † Macomb
Cordell, Gertrude Robinson	SS		Pittsfield
Cordell, Ralph Vail	SS	30	Rushville
Cordell, Robert Roland	Com		* † Macomb
Cork, Willis Hugh	Com	60	* † Wheaton
Corke, Harold Winfred	Com	102	* † Evanston
Corl, Marshall Price	ME	34	* † Joplin, Missouri
Cormack, Joseph Clarence	Com	33	* † Glencoe
Cornelisen, Ralph White	RCE	37	* † Pittsburg, Kansas
Cornell, Donald Sidney	ME	106	* † Western Springs
Corper, Philip	Com	78	* † Chicago
Corrie, Lester Linn	Agr	61	* † St. Francisville
Corrie, Samuel Earl	Agr		* † St. Francisville
Corson, Irene Marugerite	HSLAS	21	† Genoa
Cory, Gertrude Finley	LAS		* † Hoopeston
Corzine, Dale Clair	Agr	84	* † Assumption
Cossart, Estella Anna	LAS		* † Chicago Heights
Cost, James Nicks	ME	57	* † River Forest
Cotta, Maurice Leroy	MSE		* † Rockford
Cottingham, Lloyd	Agr		† Abingdon
Cottrell, Pearl Winifred	LAS		† Des Moines, Iowa
Coultas, David Eugene	Agr	34	* † Virden
Countryman, Irving Byron	Com	95	* † Dixon
Courtney, George Frederick	LAS	57½	* † Urbana
Courtney, Helen Irene	LAS	30	* † Urbana
Cousins, Wanda Maurine	LAS	29	* † LaFayette, Indiana
Coutchie, Kenneth Gilbert	SS		Muskegon, Michigan
Cover, Hazel Winifred	HSLAS (SS)	10½	* † Paw Paw
Covey, Edwin Linn	Law	108	* † Peoria
Cowles, Rollin James, Jr.	Com	29	* † Burlington, Iowa
Cox, Clare Francis	LAS (SS)	84	* † Vandalia
Cox, Clinton Exum	Agr sp	16	* † Urbana
Cox, Gerald Judy	ChE	35	* † Bridgeport
Cox, Henry Ray	Agr	97	* † St. Louis, Missouri
Cox, Jessie Ethel	HSLAS		* † East St. Louis
Crabtree, John Bradley	Com	28	* † St. Paul, Minnesota
Crackel, Thelma Ruth	LAS		* † Champaign
Craft, John Countryman	Agr	66½	* † Rochelle
Craig, Edward Eugene	EE (SS)	44	* † Medford, Massachusetts
Craig, Florence Margaret	Lib	33	* † Minneapolis, Minnesota
Craig, Helen Elizabeth	LAS	35	* † Hindsboro
Craig, John Andrews	EE	34	* † Hindsboro
Craigmile, Mary Agnes	LAS	100½	* † Rantoul
Craigmile, Mary Delight	LAS (SS)	86	* † Knox, Indiana
Crain, Hersey Nicholas	EE	94	* † Waverly
Cramer, John Stanley	EE		* † Maroa
Crandall, Bert Harrison	SS	96	* † Huntsville
Crandell, Earl Melville	Agr		* † Oak Park
Crane, Baron Dana	Com		* † Mt. Pleasant, Iowa
Crane, Charles Sutherland	Com	24	* † Chicago
Crane, Elva Verna	LAS		* † Hoopeston
Crane, Finley Miller	Agr		* † Hoopeston
Crate, Ethel Frances	LAS	33	* † Bellflower
Craven, Verrall Janice, B.S., (Kansas State Agriculture College) 1915	LAS	61½	* † Chicago
Cravens, Homer Halbert	SS	6½	* † Plymouth
Crawford, Charles Henry	Com		* † Oakland
Crawford, Harry John	Com		* † Oakland
Crawford, James Louis	CerE	102	* † Macomb
Crawford, Jeannette Irene	SS		Barry
Crawford, Louis Noere	Arch	122	* † W. Lafayette, Indiana
Crawford, Ruth Marguerite	HSLAS	97	* † Urbana
Crawford, Woodruff Lynden	SS	89	* † Pontiac
Creason, William Henry	LAS		* † Mayfield, Kentucky
Crebs, John Montgomery, Jr.	Com		* † Carmi
Creedan, Joseph Francis	AE		* † Omaha, Nebraska
Creighton, David Edward	Agr	52	* † Phoenix, Arizona
Creighton, Mary Elizabeth	SS	104	* † Phoenix, Arizona
Cremeans, Lola Merle	HSLAS		* † Urbana
Cremeans, Nida Edith	LAS	26	* † Urbana
Cress, Eldred Everett	AE (SS)	73	* † Carlinville
Criger, William Nelson	Com		* † Elmwood
Criley, Harlan Russell	LAS	64	* † Champaign
Crim, Charles Harold	CE	51	* † Estherville, Iowa
Crissey, Sherman Bartholmeou	CE		* † Marengo
Critchett, Elmer Bruce	Agr	42	* † Grinnell, Iowa
Croak, John Elmer	SS	66½	* † Decatur

Crofts, Carson	Com (SS)	101	* † LaGrange
Cronin, Marie Louise	LAS	32	* † Chicago
Crookston, R Burns	SS	7	* † North Logan, Utah
Crosiar, Arthur Ogan	Agr	74	* † Ulica
Cross, Harold	Agr		* † Polo
Cross, Hugh Ware	LAS	31	* † Jerseyville
Cross, Mary Ann	LAS	64	* † Roachdale, Indiana
Crothers, Eli Kirk, Jr.	Arch	33	* † Bloomington
Crouse, Florence Hawley	Lib	33	* † Citronville, Alabama
Crow, Robert Neil	ChE	32	* † Carrollton
Crowder, Dan Moore	Com	31	* † Sullivan, Indiana
Crowder, Dulcie Marie	Mus		* † Hamilton
Crowell, Orpha Faye	SS	8	* † Waverly
Crowell, Truman MacKenzie	Com		* † Orange, California
Crutcher, Walter Louis	EE	105½	* † Springfield, Missouri
Cryder, John Henry	Agr	102	* † Plainfield
Cryder, Mary Edna	HSLAS	96	* † Plainfield
Cryder, Ray Eugene	Agr		* † Morris
Cuerden, Catherine Fay	Mus		* † Hamilton
Culbertson, Raymond James	Com		* † Stryker, Ohio
Cullen, Leo Berdell	Agr		* † Pontiac
Cullin, Victor	Com		* † Taylorville
Cullinane, George Madill	EE	106	* † St. Louis, Missouri
Culter, Ralph Emerson	Com		* † Gibson City
Cumfer, Donald Alonzo	ME	47	* † Chicago
Cummins, Edward John	LAS		* † Murphysboro
da Cunha, Humberto Monteiro	CE		* † Sao Paulo, Brazil
Cunnea, Joseph Patrick	CE		* † Chicago
Cunningham, Irene Mary	LAS	27	* † Rossville
Cunningham, Opal Claree	LAS (SS)	99	* † Urbana
Cunningham, Sterling Ross	Law	95	* † Bismarck
Cunningham, Walter James	ME	35	* † Mattoon
Currie, Althea Elizabeth	Com (SS)	41	* † Loda
Curler, Lawrence Jenks	Com	39	* † Aurora
Curry, Henry Burrage	SS	7½	* † Beason
Curtis, Burton Tuttle	SS		* † Decatur
Curtis, Charles Carey	Law		* † Amesville, Ohio
Curtis, Jane Tuttle	HSLAS	22	* † Decatur
Curtis, Miriam Austin	HSLAS	55	* † St. Louis, Missouri
Curtis, William Wheaton	Agr	34	* † Chicago
Curtiss, Edward Augustus	Agr		* † Stockton
Curtiss, Ralph Edwin	Agr	102½	* † Marengo
Cushman, Horace Oscar	AE	37	* † Danville
Cushman, Kenneth Bruce	Agr	33	* † Yonkers, New York
Cuskaden, Major	Agr	84½	* † Arcola
Custer, John Howard	Com		* † Chicago
Cuthbertson, William Stuart	Com	97	* † Pueblo, Colorado
Cutler, Lloyd Elwell	Agr	32	* † Rosemond
Cutter, Robert Marshall	Com	45	* † St. Louis, Missouri
Czainski, Edward	LAS		* † Chicago
Dadant, Harriette Gabriel	HSLAS	99	* † Hamilton
Daggett, Edward James	MdP		* † Joliet
Dahlberg, Truman Lawrence	ChE	56	* † Chicago
Dahlen, Paul Andrew	LAS	27	* † Rock Island
Dahlin, Edna	HSAgr	63	* † Geneva
Dailey, Arthur Aloysius	LAS	41	* † New York, New York
Dale, Charles Sherman	SS	9	* † Fisher
Dale, John Herman	Agr	96½	* † Mt. Vernon
Dallenbach, Karl M., A.B., 1910	SS	157	* † Champaign
Dallenbach, Maybelle May	LAS (SS)	95	* † Champaign
Daly, Ewing Porter	ME	102	* † Ottawa
Daly, Geraldine	LAS	72	* † Joliet
Daly, Helen	SS	121	* † Monmouth
Daly, Lewis	Mus		* † Monmouth
Dame, Ralph Uhler	Com	30	* † Oxford, Indiana
Damron, John Harold	Agr	60	* † Macomb
Dana, B	Chem	128½	* † Chicago
Daniel, Ruth	Mus	35	* † Kewanee, Indiana
Danly, Philo Howard	ME	8	* † Chicago
Dappert, Anselmo	CE	78	* † Taylorville
Darby, Harry, Jr.	ME	109½	* † Kansas City, Kansas
Darham, Anna	SS	4	* † Carthage
Darnall, Warren Verne	LAS		* † Oak Park
Darrell, George Charles	AE	108	* † Chicago
Dart, Helen Alwilda	Mus		* † Princeville
Daugherty, George Henry	LAS	33	* † LaGrange
Davenport, Alice Victoria	SS	130	* † Wheaton
Davenport, Dorothy Darliane	MdP (SS)	66	* † Wheaton
Davidson, Bernard Eugene	CE		* † Keokuk, Iowa
Davidson, Gaylord Stillman	Com	69	* † Springfield
Davidson, Mary A	SS		* † Marshall
Davidson, Mina Saloma	HSLAS		* † Crawfordville, Indiana
Davis, Charles Brewer	LAS	32	* † Champaign
Davis, Charles Jesse	ME		* † Chicago

Davis, Eleanor, A.B., (University of Minnesota), 1914	Lib		* † Winona, Minnesota
Davis, Elizabeth	HSLAS		* † Rantoul
Davis, Elmer Leon	Com	24	* † Kankakee
Davis, Frances Margaret	LAS	32	* † Urbana
Davis, Frank William	SS		* † Omaha
Davis, Frederick A.	Agr	88	† Rockford
Davis, Mrs. Goldia Elizabeth	Agr sp		† Urbana
Davis, Helen	LAS	77	* † Los Angeles, California
Davis, Helen Powers	HSLAS	115	* † Holton, Kansas
Davis, Herbert Spencer	MdP		* † Louisville
Davis, Jessie Viola	SS	13 $\frac{5}{8}$	* † Greenville
Davis, John Eugene	Com	83 $\frac{1}{2}$	* † Chicago
Davis, Kenneth Isaac	Com	36	* † Tampico
Davis, Leonard Hoadley	Agr	91 $\frac{1}{2}$	* † Chicago
Davis, Leonard Louis	CE	113	* † Freeport
Davis, Lyman Kent	LAS	41	* † Donnellson
Davis, Milton Russell	Agr	97	* † Chicago
Davis, Nelson Louis	AE	46	* † Chicago
Davis, Paul Albert	MdP	59	* † Hume
Davis, Philip Frank	Agr	100	* † Windsor Mills, Quebec
Davis, Ralph W.	Com		* † Monticello, Indiana
Davis, Raymond Ellis	CerE	100	* † Danville
Davis, Waldo Emerson	EE	25	* † Kapatee
Davis, Walter Thomson	Com		* † Elkhart, Indiana
Davis, Ward Owen	Agr	60 $\frac{1}{2}$	* † Ramsey, Indiana
Davison, Joe Miller	Agr	30	* † Marshall
Davison, Victor Harvey	LAS	31	* † Mionok
Dawley, Earle Reed	CE	36	* † Passaic, New Jersey
Dawley, Robert Worthington	ChE	33	* † Passaic, New Jersey
Dawson, Louis Edward	ChE	81	* † Springfield
Dawson, Owen Lafayette	Agr	50 $\frac{1}{2}$	* † Orland
Dawson, Robert Harvey	EE sp		* † Monticello
Dawson, Roger Mills	CE		* † Decatur
Day, Curtiss LaQ	Com	101	* † Gibson City
Day, Frank Ernest	Com		* † Sioux City, Iowa
Day, Harry Warren	Agr	99	* † Shelbyville
Day, Vincent Stephen	ME	112	* † Springfield
Dayton, Wayland Wilbur	Agr	31	* † West Chicago
Deahl, Neulon	Chem	68	* † Champaign
Dean, Olive Gertrude	LAS	76	* † Harrisburg
Dean, Orval Jennings	Agr		* † Harrisburg
Dean, Vaughn Waldow	Com	67	* † Decatur
Decker, Albert	SS	7	* † Hoopeston
Decker, Arthur Eli	SS	17	
Decker, David B., Jr.	LAS		* † Chicago
Decker, Edna Mae	Agr	99	* † Chicago
DeCosta, Harold Fonseca	SS		* † Chicago
Deering, Earl William	CE		* † Chicago
Deering, Richard Francis	LAS		* † Chicago Heights
Deffenbaugh, Floyd Russell	LAS		* † Mahomet
DeGroot, Horace Edward	ME (SS)	33	* † Chicago
DeGroot, Walter Charles	Agr (SS)	32	* † Chicago
DeHart, Myra Lois	HSLAS	30	* † Waukegan
Delabar, Clifford Ernest	Agr sp		* † Oquawka
Dell, Dorothy	HSLAS		* † St. Louis, Missouri
DeLong, Clarence Henry	Com		* † Filthian
DeLong, Vernon Meade	Agr		* † Nova Scotia
DeLong, Willard Earl	Com	107	* † Foosland
DeLue, Jim Simon	LAS	10	* † Chicago
Demeter, Theodore Frederick	ME		* † Freeport
Denby, Marshall Alfred	Com		* † Peotone
Deneen, Arthur Louis	Com		* † Marengo
Deneweth, Amelia Elizabeth	Mus		* † Mt. Clemens, Michigan
Denick, Milo Frank	ME	75	* † Lockport
Denison, Irving Alson	Agr	67	* † Washington, D. C.
Denison, Sidney Alexander	SS	55	* † Bridgeport
Dennis, Howard Olney	MdP	32	* † Clovis, New Mexico
Dennis, Rose Carolyn	LAS	80	* † Glencoe
Denniston, Starr Coit	Arch		* † Hudson, Wisconsin
Denson, Charles Hackett	Agr		* † Harpersville, Mississippi
Denson, Mrs. Charles Hackett	Mus sp		* † Martin, Tennessee
DePue, Robert Eadie	Agr	76	* † El Paso, Texas
Derby, Harold Leslie	CE	118 $\frac{1}{2}$	* † Kirksville, Missouri
Dern, Karl Ludwig	ChE	79	* † Stanton, Nebraska
Detweiler, Ruth Naomi	LAS		* † Aledo
Deuchler, Gustave Herman	AE	67	* † Aurora
Devere, Martha Catherine	HSLAS	31	* † Chebanse
Devlin, John Lester	Com	96 $\frac{1}{2}$	* † Chicago
Devlin, Julien Walter	Com	31	* † Chicago
DeVoe, Ray Threadgold	ME	36	* † Freeport
Devol, Everett Rolland	EE	36	* † Miami, Florida
Dewey, Elmer Clarence	Com	98	* † Rockford
Dexter, Grace Ella, A.B., 1911	LAS	141	* † Urbana
DeZee, Mathias Ellsworth	Com sp		* † Joliet

Diaz, Washington Theodore	<i>Agr sp</i>		† Urbana
Dibelka, Myron George	<i>Arch sp</i>	*	† Chicago
Dick, Frank Josef	<i>LAS</i>	*	† Quincy
Dickson, Gerald Edgar	<i>LAS</i>	73	* † Hampshire
Dickson, Lawrence Evans	<i>LAS</i>	34	* † Chicago
Dickson, Mary Myrtle	<i>LAS</i>	*	† Chicago
Diesel, Wilfred August	<i>ME</i>	*	† Chicago
Dieserud, Helge Christopher	<i>ME</i>	73	* † Washington, D. C.
Dietmeier, Homer Ray	<i>Med (SS)</i>	64	* † Winslow
Dietrich, Erma Lorena	<i>Com</i>	28	* † Bremen, Indiana
Dietrich, Harry Ben	<i>Com</i>	31	* † Mason City
Dietrich, Sterling Miller	<i>Com</i>	*	† Bremen, Indiana
Dietz, John Wasmer	<i>Com</i>	67	* † Belleville
Dikis, Ira Alfred	<i>Agr</i>	62	* † Waverly
Dildine, William Edwin	<i>Com</i>	*	† Freeport
Dillavou, Essel Ray	<i>Law</i>	174	* † Champaign
Dilling, Lela Lucile	<i>Mus</i>	*	† Urbana
Dillinger, Carl John	<i>CE</i>		† Portland, Oregon
Dillon, Teresita	<i>LAS</i>	6½	* † Danville
Dippell, Carl Bush	<i>AE</i>	73	* † Freeport
Dippell, Ralph Ellsworth	<i>AE</i>	111	* † Freeport
Dirk, Ernest Leroy	<i>SS</i>	5	* † Homerville, Ohio
Ditewig, George Bocock	<i>Com</i>	23	* † Peoria
Ditmer, Merlin Ammon	<i>SS</i>	6½	* † Potsdam, Ohio
Dix, Charles Carroll, Jr.	<i>SS</i>	7½	* † Pocomoke City, Maryland
Dix, Ruth Mabel	<i>SS</i>	97	* † St. Louis, Missouri
Dixon, Edgar Ogle	<i>ChE</i>	*	† Chicago
Dixon, Ralph Scott	<i>ChE</i>	28	* † Vincennes, Indiana
Dixon, Thomas Carl	<i>Com</i>	*	† Vincennes, Indiana
Dixson, Elizabeth	<i>HSLAS</i>	52	* † Monmouth
Dobyns, Joseph Roscoe	<i>ME</i>	*	† Champaign
Dodds, Donald Chambers	<i>Com</i>	51	* † Champaign
Dodds, Josephine	<i>LAS</i>	91	* † Champaign
Dodds, Lois Ellen	<i>LAS</i>	130	* † Champaign
Dodge, Astrid von Moth	<i>LAS</i>	31	* † Champaign
Dodge, Solon Stanley	<i>LAS</i>	*	† Chicago
Dodge, Mrs. Stella Evelyn	<i>Mus sp</i>	*	† Oberlin, Ohio
Doe, Weastell Taylor	<i>LAS</i>	101	* † Kent, Ohio
Doeden, Nellie Render	<i>SS</i>	13½	* † Cape Girardeau, Missouri
Doepel, Robert Francis	<i>ME</i>	37	* † Mattoon
Doerr, Clarence Leo	<i>Agr (SS)</i>	46½	* † Chicago
Doerscher, Willis Harry	<i>Com</i>	56	* † Chicago
Doherty, Chester Cochran	<i>MdP</i>	30½	* † Clay City
Doherty, Margaret Isabella, B.Mus., (University of Illinois), 1915	<i>LAS (SS)</i>	163	* † Urbana
Dolan, James Leo	<i>Agr</i>	101	* † Champaign
Dole, Laura Emily	<i>Mus</i>	104	* † Champaign
Dole, Lillian Dora, A.B., A.M., 1915, 1916	<i>SS</i>		† Champaign
Dole, Sarah Willey	<i>HSAgr</i>	*	† Mattoon
Donaldson, Elizabeth Frances, A.B., 1914	<i>SS</i>	139½	* † Urbana
Donaldson, Harold James	<i>SS</i>	130½	* † Polo
Donaldson, William Clark	<i>ME</i>	*	† Aurora
Donaly, Marie Ruby	<i>MdP</i>	26	* † Carterville
Donovan, Leo Francis	<i>MdP (SS)</i>	42½	* † Jacksonville
Donovan, Mary Margaret	<i>Com</i>	29	* † Champaign
Donovan, Nelle C	<i>SS</i>		† Champaign
Doocy, Helen Laura	<i>LAS</i>	69	* † Pittsfield
Doolen, Clem Daniel	<i>EE</i>	71	* † Centralia
Doolen, Glen Wesley	<i>Med</i>	61	* † Centralia
Dooley, Helen Elizabeth	<i>LAS</i>	*	† Little Rock, Arkansas
Dora, Cate	<i>SS</i>		
Doran, Arthur Phillips	<i>Com</i>	*	† River Forest
Doran, Ralph Leonard	<i>Com</i>	*	† River Forest
Dorman, Wallace Steger	<i>SS</i>	5	* † Ensley, Alabama
Dorow, Elizabeth Sylvia	<i>HSLAS</i>	*	† Golden
Dorsett, Eleanor Hidgcock	<i>HSLAS</i>	28½	* † Augusta
Dorsett, Martha Matilda	<i>HSLAS</i>	33	* † Augusta
Dorsett, Walter Harper	<i>Agr</i>	*	† Augusta
Dorullis, Bertha Marie	<i>LAS</i>	*	† Centralia
Dory, Victor Paul	<i>Com</i>	30	* † Warsaw
Dosher, Guy Hudson	<i>LAS</i>	75	* † Harrisburg
Doss, Paul Christian	<i>Agr</i>	33	* † Philo
Doty, Dorothy Lanning	<i>HSLAS</i>	75	* † Wilmette
Doty, Helene Eleanore	<i>LAS</i>	77	* † Wilmette
Doty, Henry Fairchild	<i>Com</i>	*	† Highland Park
Dougherty, Robert Hughes	<i>ChE (SS)</i>	63	* † Peoria
Douglas, Jonathan Park	<i>Agr</i>	161	* † Bloomington
Douglas, Robert James	<i>MdP</i>	*	† Chicago
Dowd, John Matheny	<i>MdP</i>	*	† Fisher
Dowell, Carl Philip	<i>EE</i>	86½	* † Port Richmond, New York
Downend, Florence Eleanor	<i>Mus</i>	38	* † Toulon
Downey, Durlin Ralph	<i>Agr</i>	113	* † Sheffield
Downing, Emily Mott	<i>LAS</i>	49	* † Elburn
Downs, Myron Day	<i>Agr</i>	33	* † River Forest
Downs, Orrie Hagar	<i>SS</i>	142	* † Urbana

Downs, Walter Elections	Com	19	*	Pana
Doxsey, Mary Ethel	SS			Rockford
Doyle, Frank Butler	ME	37	* †	Raymond
Doyle, Irene May	LAS	33	*	Clinton
Doyle, William James	Com	45	*	Champaign
Drake, Charles Arthur	LAS	114	†	First Fork, Pennsylvania
Dralle, Ruth	LAS		†	Champaign
Draper, Arthur William	Law	99	*	Chicago
Draper, Florence Gladys	LAS		*	Divernon
Draper, Ralph Waldo	LAS		*	Sidell
Drew, Myrtle Ursula	LAS		*	Downers Grove
Dreyfus, Milton	LAS		*	Fisher
Dreyfus, Morris Edward	Chem		*	Kansas City, Missouri
Dreyfus, Stanley	Com		*	Fisher
Driver, Damon Wilbur	Agr	30	*	Carrollton
Drobisch, Alice Wessels	SS	3		Decatur
Drobisch, Mollie Moore	LAS	85	* †	Decatur
Droste, Louis Anthony	Com	121	†	Grand Rapids, Michigan
Drucker, Albert	EE		*	Chicago
Drummet, Arthur William	Agr	32	*	Long Point
Drury, Charles Johnson	Agr sp		*	Jacksonville
Drury, Hiram Jones	Agr sp		*	Jacksonville
Dry, Morine Hazel	LAS		†	Palestine
Drysdale, Robert Alexander	LAS		*	Chicago
DuBois, Addie Majella	LAS (SS)	35	*	Eldorado
DuBois, Marie Mildred	HSLAS (SS)	64	*	Eldorado
DuBridge, Walter Stephen	EE	13½	*	Momence
Dueringer, Walter Edward	ME		*	Elgin
Duffie, Paul Michael	CerE		*	Sterling
Duffin, Leon Gavin	ME	3	*	Chicago
Duffy, John Clarence	Agr	114	*	Ottawa
Dugger, Donald Ollie	AE	37	*	Princeton, Kentucky
Duke, Clarence Ormond	ME		*	Henry
Dukes, Ruby Gertrude	Mus		*	St. Joseph
Dumas, Velma Burdette	Mus	54	*	Cicero
Dumke, Mildred	Com (SS)	67½	*	Elmhurst
Dunbar, Glenn	Agr		*	Taylorville
Duncan, George Jordan	Com		*	Villa Grove
Duncan, Pauline	Mus		†	Marion
Dungan, George Harlan	Agr (SS)	106	*	Richwood, Ohio
Dungan, John Urban	Com (SS) sp	8	*	Richwood, Ohio
Dunlap, Leonard Eugene	Arch (SS)	97	*	Urbana
Dunn, Bankier Louis	EE		*	Hillsboro
Dunn, Dorothy	LAS	29	*	Waukegan
Dunn, Georgiana Evelyn	HSLAS (SS)	67½	*	Hinsdale
Dunn, Homer Alban	Com	31	*	Columbus, Indiana
Dunseth, Ruth Irene	HSLAS		†	Waverly
Dupaquier, Albert Louis	Com		*	New Albany, Indiana
DuPlan, Henry Brackman	Agr		†	Chicago
Dupre, Valentine Harry	EE (SS)	101½	†	Chicago
Durfey, Donald	Com	99	†	Tolono
Durham, Harold Winfred	Com		*	Genoa
Durin, Fred Ethan	Agr		†	Scarboro
Dusenberry, Paul Brouneller	LAS		†	Nashville
Dushek, Vincent John	EE	109	*	Chicago
Duster, Benjamin Cecil	LAS	58½	*	Indianapolis, Indiana
Dusthimer, William Vernon	MdP	14	*	Chrisman
Dustin, Charles Sanderson	Agr	30	†	Urbana
Dutton, Herbert Buell	ME	107	†	Oak Park
Duvall, Fae	HSAgr	40	†	Argenta
DuVall, Nellie Olive	HSLAS (SS)	42	*	Urbana
DuVall, Virgil Henry	Law	115	†	Aledo
Dux, Herbert Elmer	AE		*	Indianapolis, Indiana
Dvorak, Joseph, Jr.	Arch	73	†	Chicago
Dyer, Ethel Golden	SS	25	*	White Hall
Dyer, Harold Ruskin	AE	50	†	Bloomington
Eade, Ben Cooper	Agr	105	†	Elizabeth
Earhart, Marianne Eloise	LAS		†	Wyoming
Eaton, Charles Miller	Agr	33	†	Quincy
Eaton, Chester Manning	Com		†	Macomb
Eaton, Donald Mark	Chem	32	†	Stockton
Eaton, Rea Lincoln	Agr	62	*	Eaton, Colorado
Eaton, William John	SS	24½	*	Normal
Ebi, Kenneth Ade	ME		†	Moline
Eckhardt, Roland Oscar	LAS	29	†	Sheboygan, Wisconsin
Edds, Vera Oriene	LAS	93	†	Normal
Eddy, Maree Lourena	Agr sp		*	La Moille
Edel, Leslie Archibald Drummond	Chem		†	Duquoin
Edgerley, Kenneth Hopkins	Agr	30	†	Granville
Edgeworth, Myron	ME		†	Kankakee
Edie, Burl Albert	LAS	27	†	Monticello
Edison, Ben Hamilton	CE		†	Chicago
Edmundson, Clarence S	SS	5		Moscow, Idaho
Edmundson, Nila Winifred	HSLAS (SS)	42½	†	Balbec, Indiana
Edwards, Clarence Leon	LAS	7½	*	Carrollton

Edwards, Gail Philip	Chem	67	* †	Chicago
Edwards, Harlan Hammond	CE	147	* †	Chicago
Edwards, Howard Milton	MdP	18	* †	Lee
Edwards, James Beresford, Jr.	Com		* †	Morgan Park, Chicago
Edwards, Liston Myron	ME		* †	Chicago
Edwards, Terry Warren	EE		* †	Jerseyville
Eftting, Gertrude Frances	SS	8	* †	Morris
Egan, Lillian Elizabeth	HS Agr	57	* †	Quincy
Egbert, Donald Searce	Agr sp		* †	Sycamore
Eglin, Elmer John	EE		* †	Richmond, Iowa
Ehlers, Earl Edward	AE	18	* †	Mason City, Iowa
Ehrhardt, Oliver Earl	MdP		* †	Beardstown
Eichberg, Adrian J	LAS	71	* †	Chicago
Eichhorn, William Hirschel	Agr	68	* †	Mound City
Eikenberry, Amos R	SS	8		LaPlace
Einbecker, William Francis	Chem	34	* †	Chicago
Eisner, Katherine	Mus		* †	Champaign
Eisner, William Henry	ME	62	* †	Chicago
Eldridge, Earle Whitney	Agr	30	* †	Greenview
Eldridge, Leah Estene	HSLAS		* †	Wilmette
Eldridge, Lillian Mary	LAS	95	* †	Kansas City, Kansas
Elerding, Beatrice	LAS	25	* †	Chicago
Eleson, Eugene Robert	MdP	73	* †	Elkhart, Indiana
Eil, Ferdinand Arthur	EE	72	* †	Chicago
Eilenberger, Guy Ward	CerE		* †	Normal
Eiler, Walter Harrison	SS	8		Peoria
Ellington, Alvin Mathews	LAS	35	* †	Buffalo
Elliott, Earlis Edgar	Agr (SS)	32	* †	Bono, Arkansas
Elliott, Eva Lillian	LAS	98	* †	Beresford, South Dakota
Elliott, Isabel Gertrude	LAS	110	* †	Beresford, South Dakota
Elliott, Robert Tollington	RCE (SS)	111½	* †	Wilmington
Ellis, Olive E	SS	.96		LaPlata, Missouri
Elwell, Dan William	Com	68	†	Champaign
Emch, Walter	CE	76½	* †	Urbana
Emery, Harold Robert	LAS	34	* †	Belleville
Emery, Leroy Densmore	LAS sp		* †	Kirksville, Missouri
Emery, Robert Simpson	Com		* †	Chicago
Eminger, Mabel	LAS	65½	* †	Gibson City
Emmons, Owen Andrew	SS	5		Albion, Michigan
Emrich, Dwight Martin	CE		* †	Winslow
Ems, Clarence	Agr		* †	St. Joseph
Engel, Robert Henry	Agr	128	* †	Freeport
Engelhard, Willard Paul	Com		* †	Hollywood
Engelhardt, Lora May	HSLAS	28	* †	Howard
Engelland, Mynetta Mary Margaret	HSLAS		* †	Grant Park
England, Glenn Lewis	EE	34	* †	Havana
Engle, Esther Annette	LAS	116	* †	Bloomington
Engle, Jeannette Morrison, A.M., (University of Illinois), 1916	Lib		* †	Urbana
Engle, Lawrence Washington	Agr	24	* †	Urbana
Engle, Ralph Nelson	Agr sp	125	* †	Urbana
Engle, Mrs. Ralph Nelson	Agr	2	* †	Urbana
English, Connell Abdill	Agr		* †	Aberdeen, South Dakota
English, Frank James	ME (SS)	71½	* †	Springfield
Eninger, Helen Marie	SS	160		Arthur
Eppinger, Esther Augusta	Com	33	* †	Quincy
Eppinger, Marie Anna	SS	54½		Quincy
Epstein, Arthur Louis	LAS (SS)	141	* †	Chicago
Epstein, Karl	Agr	101	* †	Bloomington
Erdmann, Roy Alfred	Com	66	* †	Geneseo
Erickson, Adrian Edson	Com	33	* †	Onawa, Iowa
Erickson, Arthur	Agr (SS)	34	* †	Chicago
Erickson, Edward Bringle	MSE	110	* †	Chicago
Erickson, Willard Carl	ChE		* †	Bradley
Erikson, Edison Clyde	Agr		* †	Princeville
Ernest, Helen Orpha	Mus (SS)	41	* †	Urbana
Espy, Curtis Leach	LAS		†	Logansport, Indiana
Espy, Murry Greenleaf	SS	9-4½		Logansport, Indiana
Esslinger, Esther Lillian	LAS		* †	Rushville
Ettinger, Charles McKinley	CE	108	* †	Bourbon, Indiana
Euston, Jacob Howard	EE	70	* †	Norfolk, Virginia
Evans, Bessie Louise	SS	5		Champaign
Evans, Donald Grover	EE	107	* †	Champaign
Evans, Floyd Evan	ME	107	* †	Hinckley
Evans, Fred	AE	67	* †	Chicago
Evans, Lois Kathryn	LAS	31	* †	Monticello
Evans, Maurice Willard	Com	36	* †	Mattoon
Evans, Melbourne Covell	SS	6½		Chanute, Kansas
Evans, Robert Barclay	Com		* †	Aurora
Evans, William Harold	LAS		* †	South Bend, Indiana
Eveland, Harmon Edwin	EE	16	* †	Hobson, Montana
Everham, William Edward	ME	116	* †	Chicago
Everhart, Gladys	HSLAS	33	* †	Champaign
Ewald, Paul George	Agr	108½	* †	Mt. Carmel
Ewald, Sophia Catherine	LAS sp		*	Mt. Carmel

Ewan, Caroline Virginia	LAS	44½	* † Cuba
Ewer, Warren Badger	AE	115	* † Chicago
Ewing, Anne McNullen	HSLAS	26	* † Vincennes, Indiana
Excell, Stuart William	CE	106	* † Chicago
Exiner, Samuel	Agr		* Chicago
Eyman, Margaret	LAS	65	* Oak Park
Eyrich, Winnifred Marie	LAS		* † Milford
Fackler, Orpheus A	SS	41	* Alwardton, Ohio
Fager, George Edward Kirchner	Agr	67	* † Murphysboro
Fahrnkopf, Charles Frank	SS	13½	* Decatur
Fairbairn, William Bryan	CE	34	* † Joliet
Fairbanks, Berthier Wesley	Agr (SS)	107	* † Chicago
Fairbanks, Laurence Bowie	Com		* † Varna
Faircloth, Samuel Edwards	ME	36	* Aurora
Fairfield, Agnes Evelyn	HSAgr	31	* † Chicago
Fairfield, Faith Jeannette	LAS	64	* † Rutland, Vermont
Fairman, Charles	LAS	65	* † Allon
Faletti, Michael Joseph	Law	99	* † Standard
Falkenberg, George Vigo	Agr	29	* † Chicago
Fallon, Vallie Edna	LAS	31	* † Urbana
Farmer, Elma Leola	Agr	127	* † Belleville
Farmer, Ruth Marie	Mus		* † Bolivar, Missouri
Farnum, Bertha Lucile	LAS	81½	* † Pawnee
Farrand, Elbridge Kitchel	ME		* † Griggsville
Farrell, Walter Greatsinger	CE		* † Chicago
Fash, Robert Arthur	Arch		* † Springfield
Fasig, Otho Samuel	LAS	14	* † Martinsville
Faulk, Harry Lee	LAS (SS)	8	* † Brownsville, Texas
Faulk, Merrill Clifford	LAS (SS)	106	* † Urbana
Faust, Rudolph Alfred	Chem		* † Washington, D. C.
Fautsch, Emile	Chem		* † New York, New York
Favinger, William Lloyd	Agr		* † Albion, Indiana
Fay, Donald Allen	Com	99	* † Urbana
Federmann, Charles Russell	Arch	152	* † Brookville, Indiana
Fee, Laurence George	EE (SS)	2½	* † Champaign
Fee, Mary Jeannette	Agr	26	* † Champaign
Fehrenkamp, Winifred, B.L.S., 1915	Arch		* † Urbana
Feldenthal, Edna Leontine	Mus sp		* † Boston, Massachusetts
Feldhake, Otto John	Com		* † Effingham
Feldman, Nathan	ME	52	* † Chicago
Felmley, John Benjamin	AE	79	* † Normal
Felton, Harold Norton	EE	108	* † Mendota
Ferguson, Alice Maude	HSLAS	51	* † Orion
Ferguson, George Alonzo	Arch	108	* † Washington, D. C.
Ferguson, Wilbert Homer	Com	31	* † Kansas City, Missouri
Ferree, George Bennett	Eng	14	* † Urbana
Ferree, Letitia Lehman	HSAgr (SS)	69½	* † Terre Haute, Indiana
Feuer, Bertram	ChE (SS)	79½	* † Chicago
Fickett, Edward Manard	Agr	71	* † Chicago
Field, Basil Gordon Rutan	Agr		* † Fitchburg, Massachusetts
Field, Corinne	LAS		* † Chicago
Field, David Edwards	AE	65	* † Slater, Missouri
Field, Erastus Immanuel	Com		* † Northfield, Minnesota
Field, Geoffrey Myron	Com		* † Peoria
Field, Howard, Jr.	ME	58	* † Wilmette
Filbey, Edward Joseph, Ph.D., 1908 (University of Wisconsin)	Com	3	* † Urbana
File, Viola Louise	Agr (SS)	96	* † Irving
Filler, Charles	Com		* † Chicago
Finger, Raymond Hermon	SS		
Finley, Joseph Orton	Agr	119	* Oneida
Finley, Louise	SS		* Indianapolis, Indiana
Finley, Margaret Alice	LAS	66	* † Hoopston
Finley, Marion Reece	Agr	103	* † Hoopston
Finn, Edmund Matthew	AE	109	* † Lawrence, Massachusetts
Finney, Dorothy	LAS		* † Westfield
Finney, James Thomas	LAS		* † Champaign
Finnigan, Catherine Elizabeth	LAS		* † Champaign
Finnigan, Martha Mary	LAS	52	* † Champaign
Firebaugh, Raymond Sims	Agr	16	* † Robinson
Firoved, Glenn William	Agr	87	* † Montmouth
Firth, Harry Vernon	AE		* † Moline
Firth, Jacob Gerald	ME (SS)	22	* † Green Valley
Fischbach, Antonio	LAS	32	* † Centralia
Fischer, Austin Harold Reed	Arch	24	* † Chicago
Fischer, Mary Catharine Eliza	Mus		* † Elmhurst
Fish, Mary Vivian	SS	23	* † Benton
Fisher, Clarence John	Law	66	* † Chicago
Fisher, Forrest Addison, B.S., 1911	Agr		* † Hudson, Kansas
Fisher, Frances Agnes	LAS	25	* † Kinmundy
Fisher, Harold Howe	Agr	25	* † Bement
Fisher, Harry Eastman	MSE (SS)	114½	* † Chicago
Fisher, Ivan Louis	Com	31	* † Logansport, Indiana
Fisher, Lawrence Glen	LAS	40½	* † Freeport
Fisher, Paul	Agr	36	* † St. Louis, Missouri

Fisher, Paul Anthony	<i>Agr sp</i>	*	†	Green Valley
Fishman, Sol Leon	<i>ChE</i>	72	*	Chicago
Fishman, Wilbur Harlow	<i>Agr</i>	63	*	Bosky Dell
Fisk, Fritz Harris	<i>Law</i>	69	*	DeKalb
Fitch, Howard J	<i>Agr</i>	102	*	Rockford
Fitch, Hugh	<i>ME</i>	32	*	Greenup
Fites, Harold Bratt	<i>Agr</i>	108	*	South Bend, Indiana
Fitzer, Marian Lucille	<i>LAS</i>	31	*	Belvidere
Fitzgerrell, Sylvester Stanton	<i>Law</i>	105	*	Benion
Fitz-Hugh, Greene Smith	<i>EE</i>	*	*	Henderson
Fitzpatrick, James Claude	<i>MinE</i>	76	*	Gillespie
Fitzpatrick, Margaret Marion	<i>LAS</i>	48½	*	Chicago
Flagg, Howard William	<i>LAS</i>	*	*	Libertyville
Flanders, Annette Hoyt	<i>Agr sp</i>	*	*	Milwaukee, Wisconsin
Flannery, Charles Abusdal	<i>ME (SS)</i>	114	*	Chicago
Flatt, Nelle Irene	<i>LAS (SS)</i>	35	*	Champaign
Flaughner, Richard Greer	<i>Agr</i>	187½	*	Cayuga, Indiana
Fleischner, Julius	<i>MdP</i>	*	†	Chicago
Fleishman, George Samuel	<i>CE</i>	35	*	St. Louis, Missouri
Fleming, Adelaide	<i>SS</i>	*	*	Boswell, Indiana
Fleming, Ellen Milton	<i>HSLAS</i>	*	*	Olney
Fleming, Harry Hall	<i>Agr</i>	39	*	Chicago
Fleming, Oscar Jonathan, Jr.	<i>ME</i>	*	*	Berwyn
Fleming, Stephen James	<i>Agr</i>	24	*	Chicago
Flemming, John Herman	<i>Arch</i>	121	*	Davenport, Iowa
Fletcher, Edwin Lott	<i>Agr</i>	25	*	Morris
Flexer, Edna Helen	<i>HSLAS</i>	87	*	Joliet
Flock, Marguerite Pauline	<i>LAS (SS)</i>	75½	*	Urbana
Flock, Ward John	<i>Agr (SS)</i>	101	*	Urbana
Flood, Martin	<i>EE</i>	51	*	Cortland
Flowerree, Trennace, M.S., 1916	<i>Agr (SS)</i>	*	*	Easton
Fluke, Autha Maybelle	<i>LAS</i>	58	*	Chicago
Fogerson, Josephine Mason	<i>LAS</i>	*	*	Champaign
Fogler, Mayor Farthing	<i>Chem (SS)</i>	73	*	Champaign
Foley, Philip Oglesby	<i>Com</i>	30	*	Paris
Foley, William Lawrence	<i>SS</i>	7	*	Gloucester, Massachusetts
Folkers, Herbert Peter	<i>LAS</i>	28	*	Frankfort
Fonseca, Manuel	<i>CE</i>	*	*	Lima, Peru
Fontaine, Everett Orren, A.B., 1915	<i>Lib</i>	159	*	Momence
Foot, Lorenzo Stephen	<i>Agr</i>	67	*	Stronghurst
Foran, Cassie Agnes	<i>LAS</i>	17	*	Joliet
Forbes, John Gordon	<i>Com</i>	38½	*	East Orange, New Jersey
Forbes, Merlin Arthur	<i>Chem</i>	*	*	Horicon, Wisconsin
Forister, Leora Muriel	<i>SS</i>	5	*	Highland
Forsythe, Albert Ernest	<i>ChE</i>	42½	*	Port Antonio, Jamaica
Forty, Dominic	<i>ME</i>	75	*	Chicago
Foss, Leroy Merrill	<i>Agr</i>	*	†	Cedarville
Foster, Francis Marion	<i>SS</i>	*	*	Rockford
Foster, Frank Ward	<i>EE</i>	98	*	Alexis
Foster, George Henry	<i>ChE</i>	105	*	Lenox Dale, Massachusetts
Foster, Gerwin George	<i>Arch</i>	*	*	Menominee, Michigan
Foster, John Wellington	<i>Agr</i>	29	*	Spring Grove
Foster, Lucy Ray	<i>SS</i>	*	*	Sparta
Foster, Robert Alvin	<i>Agr</i>	*	*	Aurora
Foulke, Ronald Edward	<i>EE</i>	72	*	Diller, Nebraska
Fouts, Kenneth Clay	<i>SS</i>	*	*	Oak Park
Fox, Austin	<i>Com</i>	*	*	Bushnell
Fox, Bertha Isabella	<i>LAS</i>	*	*	Chapin
Fox, Harold Lee	<i>Agr sp</i>	*	*	Chicago
Fox, Herschell	<i>Agr</i>	118	*	Englewood, New Jersey
Fox, James Leslie	<i>CE</i>	103	*	Urbana
Fox, Jessie Lucilla	<i>Agr (SS)</i>	*	*	Wheaton
Fox, Philip Hadley	<i>EE</i>	*	*	Champaign
Frakes, Reba Lenore	<i>SS</i>	6½	*	Crawfordsville, Indiana
Fraley, Roy Allan	<i>SS</i>	8	*	Seneca, Ohio
Frame, Byron Emmet	<i>SS</i>	10½	*	Champaign
Frame, Edith Maye	<i>LAS</i>	27	*	Champaign
Frame, Grace Bryan	<i>LAS</i>	96½	*	Eldorado
Frame, Mary Shafer	<i>SS</i>	*	*	Chicago
Franchise, Darius Charles	<i>LAS</i>	*	*	Chicago
Francis, Arthur Lewis	<i>Com</i>	54	*	Findlay
Francisco, Cecil Emery	<i>Agr sp</i>	*	*	Chicago
Frank, Dudley Liguori	<i>Com</i>	*	*	Chicago
Frank, Joseph Liguori	<i>Agr</i>	*	*	Chandlerville
Franken, Gretchen	<i>LAS</i>	29	*	Springfield
Franks, Arthur John	<i>ChE</i>	*	*	Elgin
Fraser, Hazel Mable	<i>HSAgr</i>	111	*	White Hall
Fraser, Thomas	<i>MinE</i>	*	*	Urbana
Frazey, Alice Belle, A.B., 1898	<i>LAS</i>	*	*	Yorkville
Frazier, Dorothy Caroline	<i>IISAg</i>	*	*	Paris
Frazier, John Z	<i>Agr (SS)</i>	42	*	Champaign
Freark, Ray Henry	<i>Med (SS)</i>	57½	*	Stewardson
Frede, Glenn William	<i>Com</i>	34	*	Clarence
Frederick, David Arthur	<i>Com</i>	5	*	Clarence
Frederick, Eugene Mark	<i>Agr</i>	99	*	Clarence

Frederick, Victoria	LAS		* † Trenton, New Jersey
Frederickson, Harry Grindley	Agr	32	* † Champaign
Freeburg, Walter Sven	EE	79½	* † Lindsburg, Kansas
Freeman, Helen Busey	LAS		* † Urbana
Freitag, Vina	HS Agr	60	* † Mackinaw
French, Randall White Burns	Agr	80	* † Grand Rapids, Michigan
French, Wendell Maynard	MdP		* † Kansas City, Kansas
Frey, Hollis Oldfield	ME	92	* † Bloomington
Frey, Joseph Richard	Com	30	* † Bloomington
Frick, Arthur Henry	Agr	67	* † Champaign
Fried, Harry Nathan	Agr	104	* † Chicago
Friedlund, John Arthur	LAS		* † Chicago
Friedman, Harold	Com		* † Chicago
Friesenecker, Charles Joseph	EE		* † Galena
Frison, Theodore Henry	LAS	62	* † Champaign
Froehly, Arthur Gustav	EE	27	* † St. Louis, Missouri
Froehards, Elmer Philip	Agr	81	* † Granite City
Fromann, Ann Mildred	LAS	42	* † Chicago
Frost, Alta May	SS	8	* † Jonesboro
Frost, Kenneth Thomas Williams	Com		* † Kankakee
Fruit, Edmund William	Com		* † Kenney
Fry, Charles Porter	SS		* † Konis, Indiana
Frykholm, Ellen Viola	SS	13	* † Chicago
Frymire, Alden Bowers	Agr		* † Cameron
Fullaway, Willbur Morse	MSE		* † Omaha, Nebraska
Fuller, Florence Stormfeltz	HSLAS		* † Princeton, Missouri
Fuller, Nanny Curtis	SS	8	* † Ludlow
Fuller, Willard Smith	MdP		* † Farmer City
Fulrath, William Merle	CE	30	* † Mt. Carroll
Fulton, Robert Elliott, Jr.	Com	35	* † Dixon
Fulton, William Jewett, Jr.	Chem	32	* † Keokuk, Iowa
Fultz, Dorothy Stien	HSLAS		* † Bushnell
Fulwider, James Henson	LAS		* † Freeport
Funk, Marguerite Marie	LAS	65	* † Danville
Funk, Mary Adell	Agr		* † Urbana
Funk, Ruth Scovell	Agr (SS)	100½	* † Urbana
Furey, Warren William	LAS	30	* † Chicago
Furrer, Emory Cloyd	CE	33	* † Easton
Gaarder, Rolf Harold Josef	Com (SS)	100½	* † Kristiania, Norway
Gabriel, Carson King	SS	84	* † Payson
Gaddis, Jessie Maria	Mus	155	* † Champaign
Gaddis, Robert Ellis	EE		* † Alton
Gadsby, James Herbert	Agr	26½	* † North Adams, Massachusetts
Gage, Helen Louise	HSLAS	32	* † Chicago
Gage, Mildred	LAS		* † Oak Park
Gaines, Mabel Albertine	HSLAS		* † Broadlands
Gaines, Mary Glendora	HSLAS	68	* † Broadlands
Galbraith, Florence Pauline	SS	7	* † Oak Park
Galbraith, Margaret Westannah	Agr		* † Fairbury, Nebraska
Gale, Ralph	Agr (SS)	8	* † Lincoln
Gallagher, Fred Barron	MSE	48	* † Rockford
Gallaher, Harold	EE	116	* † Tiskilwa
Gallivan, Lyle Hugo	AE	63	* † Champaign
Gallivan, Ruth Evelyn	LAS		* † Urbana
Galster, Alma Lydia	SS	12½	* † Tower Hill
Galster, Augusta Emilie	LAS (SS)	59½	* † Tower Hill
Galvin, Leo Lyle	LAS		* † Stuttgart, Arkansas
Gannaway, Lelia Maude	LAS (SS)	61½	* † Maltoon
Gannon, Laurence Paul	CE	54	* † Chicago
Gantert, Cylna Foote	ChE	35	* † Quincy
Gantz, Grace Dorothy	LAS	31	* † Champaign
Gantz, Howard Stanley	Agr	98	* † Champaign
Garber, Alfred Emanuel	SS	123	* † Gibson City
Gardiner, Robert Parker	LAS		* † Chicago
Gardiner, William Dudley	Com		* † Kane
Gardner, George Hereth	Com		* † Chicago
Gardner, McKinley	LAS	73	* † Auburn
Garlough, Melvin Nave	AE		* † Normal
Garman, Horace Bryan	LAS	33	* † Urbana
Garman, John Walter	Agr	7	* † Decatur
Garman, Ray L	Agr	31	* † Bethany
Garnett, Ida Drake	SS	8	* † Macon, Missouri
Garrison, Edith Grace	Mus	65	* † Urbana
Garth, Casper Tyrrell	Com	97	* † Beaumont, Texas
Gartner, Andrew Wolfgang	Com	34	* † St. Charles
Garvey, Edward James	AE	63	* † Faribault, Minnesota
Garvin, Mary Beatrice	LAS (SS)	80	* † Champaign
Garvin, Noah	LAS		* † Champaign
Gary, Jesse Lehman	CE	77	* † Carmi
Garza, Roman de la	CE (SS)	72	* † Mexico
Gassman, Zean G	Com	48	* † Olney
Gast, Walter Ferdinand	ME		* † St. Louis, Missouri
Gates, Marian Ethel	LAS	34½	* † Galesburg
Gates, Silas Harvey	Agr	32	* † Walseka
Gauger, Raymond Wallace	LAS	114	* † Champaign

Gault, Louis	CE		* †	Chicago
Gaunt, Gail Eleanor	LAS	72	* †	Mound City
Gaut, Rosa-Lee, B.Mus., 1912	Mus		* †	Knoxville, Tennessee
Gavitt, Richard Aurelius	CE		* †	Park Ridge
Gayle, Gilmore Jacob	Agr	33½	* †	Central America
Gayle, Maurice Rowe, Jr.	CE	27	* †	St. Louis, Missouri
Gaylord, Francis Moses	Com	31	* †	South Hadley, Massachusetts
Geardink, Charles	Chem		* †	Hennepin
Gehant, George Modeste	SS	115		Dixon
Gehlbach, Wilbur August	LAS		* †	Lincoln
Gehrig, Arthur Gustave	CE	85	* †	New Douglas
Geiger, Lester Charles	Com	71	* †	Mendota
Geiger, Walter Jacob	EE	36	* †	Mt. Carmel
Geiler, Frank Herman	LAS	82	* †	Mansfield
Geip, Hazel Marie	SS			Champaign
Geip, Lula Maud	SS	9½		Champaign
Geisendorfer, Karl Edward	SS	77½		Pittsfield
Geiss, Marie Gertrude	HSLAS		* †	Harvey
Geldhoff, George Stuart	LAS	31	* †	Grand Rapids, Michigan
Gellert, Donald Nichol	ME	36	* †	Chicago
Gemmill, Josephine Alberta	SS	52		Sparta
Genson, Marjorie Deane Hawkins	SS	132		Chicago
Gentry, Lilian	HSLAS		* †	Mascowiah
Genung, Arthur Lawrence	Arch		* †	Chicago
George, Harold Edgar	Agr	163	* †	Whittier, California
George, Leslie Godfrey, A.B., 1915	Law	169½	* †	Stanton
Gerke, Roscoe Harlan	ChE (SS)	86½	* †	Greenville
Gerlach, Alma	HSLAS	65	* †	Doniphan, Missouri
Gerling, Richard William	CE	71	* †	Bloomington
Gerloff, Charles Philip	LAS		* †	Chicago
Gerten, Nicholas	CE	126	* †	Chicago
Geselbracht, Howard Cyril	Agr	101	* †	Chicago
Gethmann, Milton	CerE	71	* †	Reinbeck, Iowa
Gettinger, Dan Oscar	SS			Sullivan, Indiana
Gettle, Francis Samuel	LAS		* †	Stuttgart, Arkansas
Gewalt, Carl Heinrich	Arch	71	* †	Breckenridge, Minnesota
Gher, Ralph Giles	CE		* †	Allendale
Gher, Reginald Owen	Agr		* †	Allendale
Ghergancff, Penco	ME	68	* †	Lovetch, Bulgaria
Ghislin, Lloyd Havens	Com	59	* †	Oak Park
Ghose, Makhan Lal	Agr sp		* †	India
Gibbons, Maude Alberta	LAS	94	* †	Metropolis
Gibbs, Horace Clarence	SS	99		Wisconsin
Gibson, Harry Wilson	Com	75	* †	Muskogee, Oklahoma
Gibson, James Raymond	Com	22½	* †	Chicago
Gibson, Raleigh Augustus	Com (SS)	94	* †	Decatur
Gibson, Susie Irene	Agr sp		* †	Chester, Vermont
Gibson, Sylvia Rose	LAS	102	* †	Chicago
Gibson, Thomas Robert	Com	60	* †	Chicago
Giddings, Mate Lewis	HSLAS (SS)	103	* †	Danville
Gideon, Charles Russell	LAS	93	* †	Oklahoma City, Oklahoma
Giertz, Arthur Edward	CE	105	* †	Elgin
Gifford, Ralph Egley	Com	97	* †	Onarga
Gift, Lyle Henry	Agr	97	* †	Peoria
Gift, Myrven Frank	Agr		* †	Peoria
Gildersleeve, Charles Turner	Agr	33	* †	Hudson
Gildner, Ellsworth Lowell	AE	59	* †	Atlantic City, New Jersey
Giles, Lewis Wentworth	AE	44	* †	Washington
Giles, Walter Arthur	SS			St. Louis, Missouri
Gill, Ivan C	Agr	70	* †	Albion
Gillam, Winona Mayble	Agr sp	33	* †	Chicago
Gillen, John Howard	ME	66	* †	Berwyn
Gillison, James Herbert	LAS	34	* †	Westville
Gillogly, Max	Eng		* †	Chicago
Gilmore, William Edward	Law	64½	* †	Chicago
Gilpatrick Gladys	HSAgr	102	* †	Plano
Gilson, Samuel Reid	LAS		* †	Galena
Gimre, Gerald Snyder	Agr		* †	Marshalltown, Iowa
Gindorff, Matthew William, Jr.	ChE	2	* †	Chicago
Ginnings, Paul Meade	ChE	34	* †	Macomb
Gipson, David William	Agr		* †	Amboy
Girhard, Harold Raymond	LAS	76	* †	Newton
Gish, Owen Ellyson	RME	37	* †	Topeka, Kansas
Gladish, Willis Lindsay	SS	88		Oakwood
Glanzner, Alma Zella	HSAgr (SS)		* †	Lebanon
Glass, Ian	Agr	30	* †	Park Ridge
Glass, Jessie June, A.B., 1909 (University of Nebraska)	Lib		* †	Lincoln, Nebraska
Glass, Will	EE	26	* †	Rock Island
Glassco, Ruth Marie	HSAgr (SS)	101	* †	Urbana
Glasser, Julius Maurice	Med		* †	Chicago
Gleason, Raymond Micheal	EE	68	* †	Chicago
Glenn, Edgar Wilson	SS	65		Hollon, Kansas
Glenn, Sidney Erwin	LAS sp		* †	Chicago
Glidden, Charles Clifton	ME		* †	Oak Park

Glidden, Nausen	<i>Agr</i>		* † DeKalb
Gliffe, Ethel Florence	<i>LAS</i>		* † Chicago
Glover, Vernon Leslie	<i>CE</i>	32	* † Mattoon
Gluek, Arthur Louis	<i>Com</i>	70	* † Minneapolis, Minnesota
Glynn, Mary	<i>SS</i>	60	* † Nauvoo
Gnaedinger, Robert Joseph	<i>ChE</i>	93	* † Chicago
Goble, Charles Herbert	<i>Com</i>		* † Casey
Goddard, James Douglas	<i>MdP</i>	54	* † Marion
Goddard, Myron Chester	<i>Com</i>		* † Monmouth
Godfrey, Frank	<i>Com</i>	59	* † Staunton
Goebel, Anna Vreeland	<i>LAS</i>		* † Urbana
Goebel, Walter Frederick	<i>LAS</i>		* † Urbana
Goelitz, Walter Adolph	<i>Agr</i>	72	* † Ravinia
Goertz, Cornelia Elma	<i>LAS</i>		* † Mt. Lake, Minnesota
Goettler, Edna Agatha	<i>SS</i>	93	* † Chicago
Goff, Charles Weer	<i>MdP</i>	20	* † Davenport, Iowa
Gogerty, Henry L.	<i>AE</i>	157	* † Zearing, Iowa
Going, Judson Freeman	<i>LAS</i>		* † Oak Park
Goldberg, Charlotte Deana	<i>LAS</i>	102	* † Chicago
Goldberg, Joseph	<i>MdP</i>	26	* † Chicago
Golden, Dios Edward	<i>CerE</i>		* † Champaign
Golden, Marie	<i>LAS</i>	30	* † Greenview
Golden, Stanley Curtis	<i>Com</i>		* † Urbana
Goldman, Frank Lyle	<i>Arch</i>	107½	* † St. Louis, Missouri
Goldschmidt, Erna Claire	<i>HSLAS</i>	81	* † Davenport, Iowa
Goldstein, Herman Alfred	<i>ChE</i>	37	* † Chicago
Goldstein, Samuel Jules	<i>MinE</i>		* † Chicago
Golinkin, Abraham Lincoln	<i>MSE (SS)</i>	82½	* † Chicago
Gomez, Alfonso Arzapalo	<i>ME</i>		* † Mexico City, Mexico
Gomez, Ramiro	<i>Com</i>		* † Mexico City, Mexico
Gooch, DeWitt Robert	<i>Agr (SS)</i>	42½	* † Bellflower
Gooch, Mabel Madellon	<i>LAS</i>	95	* † Aurora, South Dakota
Goodell, Horace Holbrook	<i>CE</i>	34	* † Beardstown
Goodfellow, Thomas	<i>Com</i>		* † Peoria
Gooding, Laura Lavonia	<i>HSAgr</i>	26	* † Belleville
Goodman, Albert Nelson	<i>AE</i>	38	* † LaSalle
Goodman, George Phineas	<i>Agr</i>		* † Mason City, Iowa
Goodmann, Beatrice Ida	<i>HSLAS</i>	35	* † Champaign
Goodpasture, Gladys Marie	<i>LAS</i>	29	* † Urbana
Goodspeed, Willetta Myrtle	<i>Agr</i>	11	* † Urbana
Goodwillie, Douglas Monroe	<i>Com</i>	29½	* † Chicago
Goodwin, Helen Huntington	<i>SS</i>	82	* † Belvidere
Gordon, Frank Allyn	<i>LAS</i>	30	* † Urbana
Gordon, Jesse Franklin	<i>Com</i>		* † Bremen, Indiana
Gordon, Kenneth Hickok	<i>EE</i>	71½	* † Oquawka
Gordon, Marie Antoinette	<i>SS</i>	58	* † Urbana
Gordon, Russell Lowell	<i>ME</i>		* † Urbana
Gordon, William Jennings	<i>Com</i>		* † Bremen, Indiana
Gore, Harmon Carroll	<i>Agr</i>		* † Morris
Gore, Roy Cletis	<i>LAS (SS)</i>	69	* † Elmwood
Gorey, George Francis	<i>MSE</i>	111	* † Joliet
Gorham, John William	<i>SS</i>	71	* † Mt. Union, Iowa
Gormley, Vincent Lewis	<i>Agr</i>	98½	* † Chicago
Goss, Henry Hamilton	<i>Agr</i>		* † Peoria
Gotte, Hugo Palmer	<i>Com</i>		* † Libertyville
Gotti, Harry Dominic	<i>Com</i>	26	* † Libertyville
Gottschalk, Arthur Hubert	<i>LAS</i>	31	* † Springfield
Gould, Anthony Ready	<i>Agr</i>	103	* † Urbana
Gould, Clifford Burt	<i>CE</i>	36	* † Aurora
Gould, Frank Elmer	<i>Com</i>	63	* † Sterling
Gould, Helen	<i>LAS</i>	32	* † LeRoy
Gould, Maurice Augustus	<i>CE (SS)</i>	111	* † New Sharon, Iowa
Gould, Philip Newhall	<i>LAS</i>	35	* † Evanston
Goveia, Lawrence Theodore	<i>AE</i>	32½	* † Jacksonville
Gowd, Rayadurg Nagan	<i>Agr</i>	71	* † Hoopet, India
Grabbe, Lowell Francis	<i>Com</i>	27	* † Urbana
Graesser, Roy French	<i>LAS</i>	85	* † Burlington, Iowa
Graham, Elizabeth, A.B., 1915	<i>SS</i>	140	
Graham, Florence	<i>LAS</i>	13	* † Chicago
Graham, Harland Brown	<i>Agr</i>	113	* † Los Angeles, California
Graham, Mark Edward	<i>EE</i>	68	* † Chicago
Graham, Pearson Fred	<i>Law sp</i>		* † Alledo
Graham, Vera Estella	<i>LAS sp</i>		* † Kirkwood
Grainger, William Wallace	<i>EE</i>	65	* † Chicago
Grant, William Wulfgang	<i>EE</i>		* † Southbridge, Massachusetts
Grantz, Raymond Lorimer	<i>Law</i>	86	* † Rockford
Graven, Anker Suerre	<i>Arch</i>	126	* † Menominee, Wisconsin
Graves, Anna	<i>LAS</i>		* † Aurora
Graves, Frank Wilkinson	<i>Agr (SS)</i>	100	* † Silver Creek, New York
Gray, Harold Youmans	<i>Com</i>		* † Ogden
Gray, James Madison	<i>Com</i>	68	* † Decatur
Gray, Kline	<i>EE</i>	36	* † Oakwood
Gray, Leslie Ray	<i>EE</i>	108	* † Bloomington
Gray, Otto Benton	<i>Agr</i>	61	* † Maroa
Gray, Russell Callam	<i>Agr</i>	90	* † Chickasha, Oklahoma

Gray, Sidney Jay	Agr		* † Princeton
Gray, William Jasper	LAS	54½	* † Lovington
Graybill, Clara May	SS	7½	* † Decatur
Green, Esther Cranston	HSLAS	67	* † Urbana
Green, Gladys	HSLAS	99	* † Oakwood
Green, Herschel Samuel	Com		* † West York
Green, John Neville	LAS	34	* † St. Louis, Missouri
Green, Robert Marion	Agr		* † Chicago
Green, Ruth	LAS		* † Urbana
Greene, Birdie Wilmah	LAS	98½	* † Tallula
Greene, Joel Waring	Agr	65	* † Urbana
Greene, Scott Corwith	LAS	30½	* † Wilmette
Greener, Walter Henry	LAS		* † Streator
Greenhalgh, Amy Elizabeth	LAS		* † Hillsboro
Greenhill, Harold	ME	106	* † Chicago
Greenleaf, Myrtle	LAS		* † Waukegan
Greenman, Ruth Ann Maria	LAS		* † Pond Creek, Oklahoma
Greenwell, Earl Eugene	Chem (SS)	105	* † Harney
Greer, Donald Malcome	LAS	32	* † Anderson, Indiana
Greer, Thomas Shadrach	SS	5½	* † Hartford, Kentucky
Gregg, Marion Elsie	HSLAS	98	* † Chicago
Gregory, James Henry	LAS	18	* † Aurora
Gregory, John Milton	Com	67	* † Kansas City, Missouri
Gregory, Julius Elmer	Com	36	* † Olney
Grew, Charles Henry	Agr	103½	* † Lawrence, Michigan
Grewelle, Helen	SS		* † Star City, Indiana
Grey, Newton Fox	Agr	125½	* † Evanston
Gridley, Charles Orville	LAS		* † Peoria
Gridley, Frederick Russell	CE		* † Amboy
Gridley, John Newton	Agr	109	* † Biggsville
Gries, Albin George	AE	12	* † Chicago
Grieser, Robert Waller	Com (SS)	32	* † Quincy
Griffin, Glenn Frank	LAS (SS)	92	* † Traverse City, Michigan
Griffin, Loyal Martin	Com	48	* † Champaign
Griffith, Burdette	Agr	47	* † McNabb
Griffith, Kathryn	HSAgr	31	* † McNabb
Griffith, Louise C	LAS		* † North Chile, New York
Griffith, Stanwood John	Agr	68	* † Ashton
Griffith, Vernon Sumner	Agr	68	* † Clinton
Griffith, Willard Warren	Agr		* † Walseka
Griffiths, Claude H	SS	11½	* † Roodhouse
Grigg, Jerome Bruner	MinE	43	* † Joplin, Missouri
Griggs, Marshall Clyde	Com	30	* † Metamora
Grigsby, Hugh	SS	132	* † Peoria
Grigsby, Melborn Redmond	SS	24½	* † Petersburg, Indiana
Grim, Boyd Allen	Com	27	* † Canton
Grimes, Earl Jerome	Agr (SS)	48½	* † Russellville, Indiana
Grimes, Helen June	HSLAS		* † Danville
Grimm, Horace Francis	LAS		* † St. Louis, Missouri
Grimm, Thomas Carlyle	LAS		* † St. Louis, Missouri
Gripp, Elmore Albert	Com	71	* † Moline
Grisemer, Walter	LAS	60	* † Bremen, Indiana
Griswold, John Douglass	Com		* † Camp Point
Griswold, Keith Donald	Com	3½	* † Plymouth
Grizzelle, Miles Crumbaugh	Agr		* † LeRoy
Grommon, Helen Wightman	HSLAS	65	* † Plainfield
Groniger, Harlan Jerome	Agr sp		* † Mattoon
Gronnerud, Herbert Melvin	CE	36	* † Chicago
Grosche, Alfred George	Agr	26	* † Matteson
Gross, Christian	Agr (SS)	100	* † Chicago
Gross, Dorothy Lillian	HSLAS	16	* † Carlyle
Grossberg, Victor Hubert	Law	85½	* † Chicago
Grossman, William Abraham	Com	75	* † Peoria
Grotevant, Nina	HSLAS	63	* † Pekin
Grathaus, Julia Ellen	Lib		* † San Antonio, Texas
Grover, Donald Dana	AE	47	* † Rockford
Groves, Charles Harold	Com (SS)	29	* † Champaign
Gruhl, Clarence John	AE (SS)	132	* † Milwaukee, Wisconsin
Grundman, Paul Albert	Com	27	* † Chicago
Gruner, Raymond William	SS	143	* † Spec
Grunewald, Carl Frederick	LAS	40	* † Chicago
Gruny, George Robert	Agr	52	* † Camp Point
Gudbrandsen, Kirsten J	LAS	27	* † Chicago
Guernsey, Ernest William	Chem	63	* † Vincennes, Indiana
Guha, Kedoresevar	LAS		* † India
Guha, Monnida Chanda	LAS		* † Chittagang, India
Guild, Lois Greene	Agr	113	* † Urbana
Guild, Walter Rayford	Com		* † Providence, Rhode Island
Guilliams, Gordon Baudouin	Agr	45½	* † Evanston
Gulick, Charles Ward	EE		* † Champaign
Gulick, Louise Scherman	SS	4	* † Champaign
Gulley, Henry Alexander	CE	38	* † Roy, New Mexico
Gumm, Minnie Carol	HSAgr		* † Marseilles
Gunning, Nadine Elsie	HSLAS	32	* † Wilmington
Gunther, Felix Arno	REE	86	* † Quincy

Gunther, Louis Henry Edward	ME		† LaSalle
Gunther, Regina Louise	LAS		† Owensboro, Kentucky
Gurda, Francis Stanislaus Roman	AE	22	* † Milwaukee, Wisconsin
Gustafson, Axel Ferdinand, M.S., 1912	LAS		* † Aledo
Gustafson, Carl Albert	AE	110	* † West Fort Dodge, Iowa
Guthrie, John Oliver	Com		* † LaSalle
Guthrie, Virgil Homer	SS		* † Newton, Iowa
Guynn, Jesse Frederick	Agr	69	* † Dewey
Gwinn, Andrew Burkley	Com		* † Bunker Hill, Indiana
Haake, Harry George	CE	44	* † Urbana
Haas, Orville Francis	EE	72	* † El Paso
Haas, Raymond Christian	Com	35	* † Evansville, Indiana
Haase, Elsa	LAS	29	* † Oak Park
Haase, Harold Raymond	Com	23	* † Oak Park
Hackley, Elizabeth Pursel	LAS	98½	* † Urbana
Hackley, John Hale	EE	51	* † Marengo
Hackney, Joseph Dryden	Com sp		* † Carthage, Missouri
Hadelman, Louis	MSE	33	* † Waukegan
Hadley, Lillian	Mus	41	* † Cambridge
Hagan, Bernard Anthony	ME (SS)	33	* † Champaign
Hagan, John Joseph	Agr		* † Champaign
Hager, Frank Stafford	ME	37	* † St. Louis, Missouri
Hager, Henry Merritt	Com	100	* † Dwight
Haggerty, Sara Mae	LAS		* † Champaign
Hague, Stella	SS	22	* † Urbana
Hahn, Grace Louise	HSAgr	65	* † West Chicago
Haight, Ethel Caroline	SS	3½	* † Paynette, Wisconsin
Hair, Arthur J	EE	66½	* † Greenville
Haish, Theodore Adam	Com	84	* † Hinckley
Halas, George Stanley	CerE	75	* † Chicago
Haldeman, Glenn Merlin	EE (SS)	73½	* † Ponca City, Oklahoma
Hale, Cedric	ChE		* † Chicago
Hall, Allen Howell	LAS	19	* † New Germantown, New Jersey
Hall, Cecil James	Com	31	* † Urbana
Hall, Edward Knight	Agr (SS) sp	64	* † Ladybrand, O.F.S., South Africa
Hall, Emory George	Com	98	* † Rockford
Hall, Janie Sophronia	SS	16	* † Carbondale
Hall, Joseph Lowe	ChE	66½	* † Sullivan
Hall, Karl William	ME	36	* † Cherokee, Iowa
Hall, Kenneth Canright	Com	63	* † Chicago
Halladay, Harriett Virginia	LAS		* † Streator
Halliday, Mabel	Mus sp		* † Clio, Michigan
Halligan, John Edison	Arch	36	* † Quincy
Halliwel, Ashleigh Drake	Com	32	* † Chicago
Hamill, Warren Catlin	CE		* † Murissa
Hamilton, Chauncey Geyer	LAS	99	* † Colfax
Hamilton, Don Herman	Agr	98	* † Paris
Hamilton, Edith LaVantia	SS	4	* † Derrand
Hamilton, Ray Leonidas	LAS	32	* † LaSalle
Hamilton, Tom Sherman	Chem (SS)	109½	* † Paris
Hamilton, William Jacob	LAS	91	* † Latham
Hamilton, William R	EE		* † Weir, Kansas
Hamlin, Ina Marie	Com (SS)	2	* † Urbana
Hammons, Charles Erle	Com		* † Stuttgart, Arkansas
Hammon, Clarence Trumbul	Agr	13	* † Urbana
Hammond, Asaph Chandler	Agr	60	* † Warsaw
Hammond, Leonard Ayers	Agr	65	* † Warsaw
Hammond, Ruth Edith, A.B., 1914	Lib	33	* † Springfield, Missouri
Hampson, Herbert	ME	27	* † Mattoon
Hanafee, Leo Boleman	Com		* † New Albany, Indiana
Hanaford, Earl Joseph	Com	32	* † Elgin
Hanawalt, William Gilbert	ME	35	* † Galva
Hance, George Martin	Agr	33	* † Marengo
Hancock, Myron Scott	EE	108	* † Beecher City
Hancock, Walden Wood	Com	63	* † Casey
Hand, Charles Silas	Com	29	* † Champaign
Hand, Ella Marie	LAS	20	* † Champaign
Handlin, William Clyde, A.B., 1909	SS	136½	* † Lake Fork
Haney, Robert Charles	Com		* † Dolton
Hanft, Theodore Martin	Agr		* † New Athens
Hanger, Maynard Jewell	EE		* † Byron
Hanger, Paul Newton	Agr	98	* † Urbana
Hankla, Willie Burch	SS		* † Geary, Oklahoma
Hanmore, John Leon	Law	136	* † Urbana
Hanschmann, Fred Robert	AE	67	* † Dolton
Hansen, Anker Fred	Arch	71	* † Oshkosh, Wisconsin
Hansen, Clarence Magnus	LAS	40½	* † Racine, Wisconsin
Hansen, Isabel Marie	HSLAS		* † Fulton
Hansen, James Edward	LAS		* † Brookston, Indiana
Hanson, Gladys Evalena	LAS sp		* † Rock Island
Hanson, Jennings William	EE	38	* † Chicago
Harbicht, Harlan Carl	MinE	78	* † Hannibal, Missouri
Hardesty, Bonnie Jean	LAS (SS)	55	* † Homer
Hardiman, Leo Bernard	AE (SS)	98	* † Los Angeles, California
Hardin, Daniel Lawrence	Arch	36	* † Kansas City, Missouri

Hardin, Annie Ruth	SS			Champaign
Hardin, William Atwater	Agr	92	* †	Keithsburg
Harding, Leola Glenn	SS	8		Greenville
Harding, William Thomas	Chem (SS)	50½	* †	Greenville
Hardy, Clifton Stanley	LAS	24	* †	Washington, D. C.
Hardy, Edward Leroy	Chem		* †	Oak Park
Hardy, Elsie Euphemia	SS	7½		Cedar Falls, Iowa
Hardy, Howard Henry	Agr	32	* †	Watska
Harford, Lyle Fowler	Agr sp		* †	Alton
Harkins, Edith Leora	LAS		* †	Tonica
Harland, Marion Boyer	Agr	67	* †	Washington, Iowa
Harmon, Homer Noah	SS	8		Walsh
Harmon, Madonna Marguerite	HS Agr		* †	Marion, Indiana
Harn, Jerry Anson	Law	49	* †	Lewistown
Harnack, Vernon Leslie	Chem	34	* †	Urbana
Harper, Charles Athiel	SS	16		East St. Louis
Harper, Ernest Glenn	SS	54½		Glasford
Harper, Mrs. Ethel Brunker	LAS sp		* †	Riley, Indiana
Harper, Homer Munda	Agr (SS)	94	* †	East St. Louis
Harrah, Chester Philip	SS	19		Bloomfield, Indiana
Harrington, Bernard Wilfred	LAS	36	* †	Champaign
Harrington, Earl Charles	LAS (SS)	2½	* †	Champaign
Harrington, J. G.	LAS sp		* †	Mt. Carmel
Harrington, Rollin Barnes	LAS		* †	Logan, Ohio
Harris, Charles Leland	EE	26	* †	Washington, Indiana
Harris, Edgar Waters	SS			Kansas City, Kansas
Harris, Elizabeth Payne	LAS	96	* †	Champaign
Harris, Hannah Hahn	LAS	98	* †	Champaign
Harris, Nora Pearl	SS	8½		Johnston City
Harris, Richard August	ChE		* †	Quincy
Harris, Robert Bruce	Agr	61	* †	Getman
Harris, William Eber	SS	6½		Milford Center, Ohio
Harris, William Rutledge	Law	57	* †	Macomb
Harrison, Benjamin Samuel	LAS (SS)	79		Villa Grove
Harrison, Elbert Iredell	AE	30	* †	Bloomington
Harrison, Jeanette	MdP		* †	Kankakee
Harrison, Marion Allen	Agr sp		* †	Brownsville, Oregon
Harsch, John Will	ChE		* †	Ottumwa, Iowa
Hart, Archie Harrison	Agr	81	* †	Grand Chain
Hart, Hermon E.	ME		* †	Barry
Hart, Marion Murphy	LAS (SS)	68½	* †	Benton
Hart, Richard Nelson	Agr	105	* †	Brighton
Hart, Viola Immogene	LAS		* †	Waverly
Hart, William James	LAS		* †	Fairmount
Hartman, Ervin Cristian	LAS	45	* †	Waterloo
Hartman, Ethel Bretton	Agr sp		* †	Mounds
Hartman, Lucille Marie	LAS		* †	New Albany, Indiana
Hartman, Milton Miles	Agr	38	* †	Freeburg
Hartmann, William Monroe	Chem	40	* †	Chicago
Hartwell, Godfrey	AE	73	* †	LaPorte, Indiana
Hartzell, Carl	SS	2		Stewartstown, Pennsylvania
Harvey, Alfred Dallas	CE		* †	Kansas City, Missouri
Harvey, Robert Allen	EE	71	* †	Fairfield
Harvey, Sarah Jane	LAS		* †	Terre Haute, Indiana
Harvey, William Clyde	Com		* †	Maniteno
Harz, Albert William	Agr	100	* †	Champaign
Hasbrook, Robert Locke	Com	24	* †	Chicago
Haselton, Harry Chamberlain	Agr		* †	River Forest
Hasenpflug, Roy	EE		* †	Waterloo, Ontario
Hasty, Russell Lowell	Agr		* †	St. Joseph
Hathorne, Emilie Marion	Chem		* †	Waukegan
Havens, James Dewey	Com		* †	Ladoga, Indiana
Haverstock, Arthur Burton	Com sp		* †	Champaign
Hawes, Henry Clifford	Com	97	* †	Atlanta
Hawley, Webster Clark	Agr		* †	La Grange
Hawthorne, Wendell Zenas	Arch		* †	Waukegan
Hawver, Paul Loren	SS	14		Decatur
Hayes, Clarence McCleskey	Agr	26	* †	Washington, Indiana
Hayes, Columbus Ferrell	Com	143	* †	New London, Iowa
Hayes, Earle Melville	Agr	91	* †	Kings
Hayes, Edward Bean	LAS	68	* †	Urbana
Hayes, Margaret Lois	Mus sp		* †	Champaign
Hayes, Oliver Howard	Agr	29		Pleasant Plains
Hayford, Arthur Wellesley	ChE	61½	* †	Chicago
Hayne, Walter Elliott	EE	69	* †	Chicago
Hays, Frank Kerr	Agr	29	* †	Chicago
Hayward, Morris Hathaway	Agr		* †	Peoria
Hazen, Gladys May	HS Agr	27	* †	Rockford
Head, Glenn Lloyd	SS	122		Sciota
Healy, William Carleton	Com	71	* †	Glenburn, North Dakota
Heartt, William D.	Agr		* †	Chicago
Heaton, Henry Herman	LAS	24	* †	Rosendale, Indiana
Heckler, Leo Chrysostom	REE (SS)	104	* †	Harvey
Heckman, Walter Chris	EE		* †	Pekin
Heckmann, Louis Frederick, Jr.	Arch	32	* †	New Harmony, Indiana

Hedenberg, John Wesley	<i>Agr</i>		* † Chicago
Hedgcock, Martha Elizabeth	<i>HSLAS</i>	64	* † Plymouth
Hedges, Edwin Alvin	<i>Mus sp</i>		* † Savoy
Hedrick, Marie Adaline, A.B., (University of Kansas), 1915	<i>Lib</i>		* † Kansas City, Missouri
Heeschen, Richard George	<i>Chem</i>	70	* † Davenport, Iowa
Hegener, Archie Leo	<i>LAS</i>	112	* † Bluff Springs
Hogsted, Martin Anton	<i>AE</i>	67	* † Chicago
Heidler, Antionette Marie	<i>HSLAS</i>		* † Oak Park
Heidler, Joe Bunn	<i>LAS</i>	65	* † Springfield
Heikes, Samuel Irving	<i>Com</i>		* † Dakota City, Nebraska
Hein, Mary Rachel	<i>HSAgr</i>	114½	* † Champaign
Hein, Mason August	<i>Agr</i>	101	* † Champaign
Heindel, Spencer Rehbock	<i>CE</i>	107	* † Stockton
Heineke, Hilton Edward	<i>LAS</i>		* † Streator
Heineke, Paul Henry	<i>Law</i>	95	* † Streator
Heinemeier, Roy Frank	<i>Chem</i>		* † Hinckley
Heinicke, Herbert Martin Edward	<i>ChE</i>	37	* † St. Louis, Missouri
Heinz, Katherine Lorella	<i>SS</i>	4	* † Champaign
Heise, Walter Otto	<i>Agr</i>	37½	* † Neponset
Heitsmith, Grace	<i>HSLAS</i>		* † South Bend, Indiana
Heizer, Edith	<i>LAS</i>		* † Maywood
Held, Irene Lucille	<i>HSLAS</i>		* † Clay Center, Kansas
Helm, Harry Gray	<i>LAS</i>	67	* † Grayville
Helm, Herbert Clarence	<i>Agr</i>	131	* † Metropolis
Helm, Laeta Elizabeth	<i>HSLAS</i>		* † Springfield
Hemb, Harold Borden	<i>ME</i>	35½	* † Dundee
Hemb, Thorvald Edward	<i>Com</i>		* † Dundee
Hemingway, Arthur Leland	<i>Agr</i>		* † Arcola
Henderson, Alice Pryor	<i>SS</i>		* † Decatur
Henderson, Anna Hazel	<i>LAS (SS)</i>	54	* † Champaign
Henderson, Bruce Walter	<i>M&P</i>		* † Holcomb
Henderson, Ewell B	<i>SS</i>	5½	* † Cameron, Missouri
Henderson, Irene	<i>LAS</i>		* † Bloomington
Henderson, Melvin	<i>Agr</i>	29	* † Leland
Henderson, William, Jr.	<i>Agr (SS)</i>	42	* † Millers Ferry, Alabama
Henderson, William Frankiin	<i>SS</i>	6	* † Decatur
Henley, Thomas Edward	<i>Agr</i>	34	* † Mattoon
Henn, Elmer John	<i>Agr</i>		* † Champaign
Henn, Hildagard Anna Sarah	<i>HSAgr (SS)</i>	87½	* † Toluca
Henn, Russell Jennings	<i>LAS</i>		* † Paris
Henneberry, Theresa Mary	<i>LAS sp</i>		* † Elkhart
Henning, Caspar Ferdinand	<i>MSE</i>	37	* † Mendota
Henry, Elizabeth	<i>Lib</i>	31	* † Quincy
Henry, Victor Max	<i>Agr</i>	33	* † Champaign
Hensold, Harold Hortman	<i>Agr</i>	94	* † Tonica
Henson, Charles Newell	<i>Com</i>		* † Villa Grove
Henson, Margaret Emily Virginia	<i>Agr (SS)</i>	64	* † Urbana
Henson, Mark Stephen	<i>Agr sp</i>		* † Urbana
Herdman, Frank Victor	<i>ME</i>	39	* † Winnetka
Hermanson, Frank Alfred	<i>Com (SS)</i>	102½	* † Milford
Herr, Charles Asmer	<i>Agr sp</i>	31	* † Quincy
Herrcke, Ralph Julius	<i>Com</i>		* † LaSalle
Herrick, Winfred Crouse	<i>Agr</i>	3	* † Rockford
Herriot, Opal Vida	<i>HSAgr</i>		* † Champaign
Herrmann, Clarence Charles	<i>Com</i>		* † Kenosha, Wisconsin
Herwig, Lee Conrad	<i>CE</i>		* † Ashlon
Herzer, Margaretha Beata	<i>SS</i>	23½	* † Springfield
Hesemann, Henry Bailie	<i>EE</i>		* † Altamont
Hesley, Karl	<i>SS</i>		* † Pittsfield
Hess, Oral Vera	<i>SS</i>	141	* † Sidney
Hess, Paul David	<i>MinE</i>	29	* † Pittsburg, Kansas
Hesser, George Balchelder	<i>Agr</i>	31	* † Urbana
Heuer, Joseph Henry	<i>CE</i>		* † Libertyville
Hewes, Ella Isabelle	<i>SS</i>		* † Crete
Heyduck, Lawrence Eugene	<i>ME</i>	37	* † Centralia
Hexter, Avromi Nathan	<i>SS</i>	27	* † Memphis, Tennessee
Hickey, Daniel Webster, Jr.	<i>EE</i>	71	* † Aurora
Hickey, John Raymond	<i>CE</i>	28	* † St. Louis, Missouri
Hicks, George	<i>Agr</i>	28	* † Chadwick
Hicks, John Emer	<i>LAS</i>		* † Onarga
Hicks, Mrs. Mary Hannah Broadbeil	<i>LAS</i>	60	* † Champaign
Hicks, Thomas Henry	<i>LAS</i>		* † Warren
Hicks, Victor La Naier	<i>Agr sp</i>	22	* † Columbia, Missouri
Hicks, Vivian Elizabeth	<i>LAS</i>		* † Columbia, Missouri
Higgins, Arthur Eugene	<i>Com sp</i>		* † La Grange
Higgins, Margaret Elizabeth	<i>SS</i>	66	* † Bee Ridge, Florida
Higgins, Mary Marguerite	<i>SS</i>	107	* † Joliet
Highfield, Allen Ross	<i>LAS</i>		* † Belleville
Highsmith, Evangeline Anne	<i>LAS</i>		* † Lawrenceville
Hilburn, Carl Thomas	<i>CE</i>	125	* † Bicknell, Indiana
Hildebolt, Harry Clifford	<i>Agr</i>	116½	* † Eaton, Ohio
Hill, Arthur Collins	<i>EE</i>	2	* † Earlville
Hill, George Oliver	<i>Com</i>		* † Highland Park
Hill, Gertrude Ozeta	<i>SS</i>	16	* † Sullivan

Hill, Harold Wayne	<i>MdP</i>	* †	Winchester
Hill, Helen Wilder	<i>Agr sp</i>	* †	Decatur
Hill, Lawrence Elias	<i>AE</i>	68	Chicago
Hill, Mary Muriel	<i>LAS</i>	16	Kansas City, Missouri
Hill, Raymond Max	<i>LAS</i>	* †	Vincennes, Indiana
Hill, Robert Earl	<i>Law</i>	115	Flora
Hill, Viri Zinn	<i>MdP</i>	* †	Streator
Hill, William Harry	<i>SS</i>	3½	Medford, Oklahoma
Hilliard, Erin Martha	<i>Agr sp</i>	*	Huntingdon, Tennessee
Hilliard, Lyndal	<i>SS</i>	43	Fairfield
Hills, David Avery	<i>EE</i>	106½	Evanson
Hilpert, Martha	<i>HSAgr</i>	91½	St. Louis, Missouri
Hiltabrand, Wendell Phillips	<i>Agr</i>	60½	Peoria
Hilton, Ivan Jay	<i>MSE</i>	20	Springfield
Himes, Shelby Dexter	<i>Com</i>	* †	Galva
Himmelreicher, Walter August	<i>CE</i>	108	Chicago
Hindman, Loel Heyward	<i>Agr</i>	* †	Anna
Hinds, Almon Wilkinson	<i>ME</i>	66	Decatur
Hines, Lyle Wilbur	<i>Com (SS)</i>	92	Fairmont, Minnesota
Hinrichs, Herbert Stassen	<i>Agr</i>	86	Joliet
Hipple, Roy Everett	<i>Agr</i>	101	Waterman
Hirstein, John A	<i>Agr</i>	104½	Summerfield
Hirth, Mildred	<i>HSLAS</i>	* †	Quincy
Hite, Edward Spalding	<i>AE</i>	* †	Terre Haute, Indiana
Hitt, Katherine, A.B., 1915	<i>Lib</i>	* †	Chicago
Hixon, Hope Ada	<i>LAS</i>	32	Urbana
Ho, Chu Kin	<i>MinE</i>	* †	Canton, China
Hobart, Floyd Beatty	<i>ChE</i>	* †	West Lebanon, Indiana
Hobart, Harriet Laura	<i>SS</i>	8	Roscoe
Hockstuhl, Eugene Harold	<i>EE</i>	*	Clifton Terrace
Hodge, John Reed	<i>AE</i>	73	Carbondale
HoeHNke, Herbert William	<i>AE</i>	73	Sheboygan, Wisconsin
Hoff, Einar Benjamin	<i>Agr</i>	* †	Oak Park
Hoffman, Aaron Andrew	<i>Com</i>	107	Dwight
Hoffman, Harold	<i>Com</i>	35	Dwight
Hoffman, Harry Burton	<i>Agr</i>	* †	Vandalia
Hoffman, Louis Arthur	<i>LAS (SS)</i>	101½	Harvey
Hoffman, Mary Margaret	<i>LAS</i>	35	Champaign
Hoffman, Max Robert	<i>ME</i>	65	DePue
Hofreiter, Jessie Belle	<i>LAS</i>	17	Green Valley
Hogan, Carl Monta	<i>LAS</i>	* †	Ellendale, North Dakota
Hogarty, Alexander Joseph	<i>SS</i>	5½	Lexington, Kentucky
Hohm, Harley Daniel	<i>Agr</i>	50	Sycamore
Holaday, Kenneth Marion	<i>ChE</i>	68	Mattoon
Holecek, Albert Bernard	<i>Law</i>	99	Chicago
Hollandsworth, Helen Margaret Ann	<i>LAS</i>	100	Canton
Hollingsworth, Chauncey Raymond	<i>EE</i>	36	Stronghurst
Holmes, Laura Clark	<i>HSAgr</i>	101	West Chicago
Holmes, Oliver Wendell	<i>Agr</i>	89	Greenfield
Holstein, Inez	<i>SS</i>	3½	Urbana
Holstein, Irma	<i>LAS sp</i>	* †	Urbana
Holt, Herbert Edward	<i>Agr</i>	34	Wheaton
Holton, William Burroughs	<i>LAS</i>	* †	Chicago
Holtzman, Harold Hoover	<i>Agr</i>	35	Chicago
Homrich, Leslie	<i>SS</i>	76	Galena
Honaker, Lombe Scott	<i>SS</i>	8½	Wytheville, Virginia
Honaker, Stuart French	<i>SS</i>	6½	Wytheville, Virginia
Honey, Myrtle Eveline	<i>Agr (SS)</i>	72	Dixon
Honold, Loie James	<i>Agr</i>	69	Kansas
Hood, Vance Robert	<i>Com</i>	* †	Mansfield
Hoots, Paul Frost	<i>Chem</i>	35	Mattoon
Hoover, Arthur Daniel	<i>LAS</i>	* †	Oak Park
Hoover, Walter Senn	<i>SS</i>	5½	Lovington
Hope, Annabel	<i>HSLAS</i>	* †	St. Louis, Missouri
Hopkins, Eugene Canfield	<i>Agr</i>	97	Yorkville
Hopkins, Guy Beatty	<i>EE</i>	110	Delatan
Hopkins, Samuel Curtis	<i>Com</i>	103	Urbana
Horen, Louis	<i>LAS (SS)</i>	66	Madison
Horimura, Hirosh	<i>EE</i>	106	Ohita Ken, Japan
Horney, Reid Bunn	<i>LAS</i>	95	Colfax
Horney, Warren Rees	<i>Agr</i>	104	Colfax
Hornkohl, Siegfried Irving William	<i>AE</i>	114	St. Joseph, Missouri
Hornsby, White Calhoun	<i>SS</i>	5	Roanoke, Alabama
Horowitz, Saul	<i>ME</i>	22½	Russia
Horrall, Kenneth Chauncey	<i>Com</i>	* †	Olney
Horter, Robert Edwin	<i>CE</i>	* †	Chicago
Horton, Erle Francis	<i>ME</i>	* †	Wilmington
Horton, Ethel	<i>LAS</i>	60	Pond Creek, Oklahoma
Horwich, David	<i>AE</i>	73	Chicago
Hosack, Carl Irving	<i>SS</i>	5	Little Rock, Arkansas
Hoskins, Leonard Cunningham	<i>ME</i>	82	Las Vegas, New Mexico
Hoskins, Robert Keith	<i>Com</i>	54	Terre Haute, Indiana
Hoskinson, Bruce Quin, A.B., 1916	<i>Agr</i>	*	West York
Hoskinson, Ottis, A.M., 1916	<i>SS</i>	8½	West York

A.B. (Union Christian College)

Hosman, Paul DeWitt	AE	31	†	Norfolk, Nebraska
Hostetler, Ada Irma	HSAgr	*	†	Lovington
Hostetler, Lloyd Earl	EE	106	* †	Chicago
Hostetler, Oliver Clinton	SS	25	*	Charleston
Hostetler, William Benton	Com	68	* †	Decatur
Hottes, Flora Emily	LAS	66½	* †	Urbana
Hottinger, Ethel Marian	LAS	34	* †	Chicago
Hotz, Wilfred Henry	Com	26	*	Edwardsville
Houg, Orville Adlai	Com	106	* †	Dows, Iowa
Hough, George Jere	Com	*	†	Maywood
Hoult, Charles Howard	Law	62	* †	Chrisman
Housel, Charles Edward	EE	31	* †	DeKalb
Houston, Henry S	Agr	*	†	Rushville
Houston, Margaret	HSAgr	112	*	Chicago
Houston, Marion Earl	LAS	26	*	Beardstown
Hovey, Russell Wilson	Com	*	†	Capron
Howard, Carl Gooch	Agr	101	* †	Benton
Howard, Charles Gerard	LAS	70½	†	Oakwood
Howard, Lester	SS	8	*	Grimes, Iowa
Howard, Mabelle Lorraine	LAS	42	*	LeRoy
Howe, Clifford	Com	31	* †	Montana
Howe, Edna Mae	SS	17	*	Rantoul
Howe, Eva	LAS	*	†	Mansfield
Howe, Roger Faxon	Agr	70	* †	Chicago
Howe, William Clayton	Com	*	†	Mansfield
Howell, Edward Tillson	ChE	36	* †	Dixon
Howell, Oliver Willis	Com	*	†	Arthur
Howell, William Claiborne	Agr	*	†	Starkville, Mississippi
Howells, Esther	SS	8	*	Staunton
Howells, Mary Georgia	HSAgr	64	* †	Staunton
Howells, Ruth Cound	LAS	66	* †	Staunton
Hoves, Edward Blasier	ME	42	* †	Chicago
Hovk, Thomas Clark	LAS	30	* †	Momence
Howssen, Arthur Wessels	CE	*	†	Urbana
Hoy, Helen Reissinger	LAS	*	†	Freeport
Hoyt, Clara Louise	SS	5	*	Griggsville
Hrabik, William Kenneth	Law	32	* †	Murphysboro
Hsieh, Zen	EE	126½	* †	Washington, D. C.
Hsun, Ching Lee	LAS (SS)	102	* †	Nan-Chang, China
Hsun, Jin Jee	ChE (SS)	107	* †	Nan-Chang, China
Huaco, Daniel Octavio	Com (SS)	20½	* †	Chicago
Huaco, Emigdio Nieves	Agr sp	*	†	Arequipa, Peru, S. A.
Hubbard, Aden Elden	SS	108½	* †	Aron
Hubbell, Edward Lawrence	Arch	36	* †	Davenport, Iowa
Hubble, Brownlee Martin	Agr	59	* †	Jacksonville
Huber, Andrew Joseph	REE	113	* †	Perryville, Missouri
Huber, Marie	LAS	*	†	LaSalle
Hudler, Mary	HSLAS	*	†	St. Louis, Missouri
Hudson, Charles Frederick	LAS	3	* †	Henryetta, Oklahoma
Hudson, Charles Henry	Chem	63	* †	Oak Park
Hudson, Edith Elizabeth	LAS	95	* †	Chicago
Hudson, Hersel Windell	Agr	34	* †	St. Joseph
Hudson, James Hezekiah	LAS	3	* †	Henryetta, Oklahoma
Hudson, James Rollan	Agr	*	†	Springfield
Hudson, Paul Zotz	ChE	*	†	Danville
Huff, Katherine	LAS (SS)	½	* †	Champaign
Huffman, Eugene Stewart	Chem	26	* †	Rockford
Hufford, Charles Thurman, B.S., 1916	Agr	*	†	Carmi
Hufford, Gayle Newbold	SS	7½	*	Patriot, Indiana
Hughes, Clarence Orville	Med (SS) sp	8	* †	Monticello
Hughes, Martin Collins	SS	143	*	Berwyn
Hughes, Mae Weston	SS	*	†	Poplar Bluff, Missouri
Hughes, Walter Bertram	SS	11	*	Carbondale
Huisken, Harry Arnold	CerE	71	* †	Chicago
Hulbert, Francis William	SS	7½	*	Allamont
Hulburd, Hazel Emily	HSLAS	95	* †	Cleveland, Ohio
Hull, Elinor Davis	Arch	*	†	Morris
Hull, Lucile Jane	SS	6	* †	Mt. Vernon
Hull, Trustum Harold	Com	33	* †	Clinton
Hullfish, Henry Gordon	Agr sp	*	†	Washington, D. C.
Hultgren, Nathaniel Otto	SS	1½	*	Andover
Hultman, Ivar Nimes	ChE	113	* †	Chicago
Hummeland, Ralph Wendel	CerE	67	* †	Melrose Park
Humphrey, Martha Blair	HSLAS	*	†	St. Louis, Missouri
Humphrey, Mervyn G	SS	6½	*	Lynn, Indiana
Humphreys, Gertrude	HSLAS	32	* †	Organ Cave, West Virginia
Humphreys, Robert Hatch	Agr	86½	* †	Atkinson
Humrichouse, Katie Lydia Edna	Com	28	* †	St. Joseph
Hungerford, Harold Norton	Agr	65	* †	Joliet
Hunsley, Alice Lillian	HSLAS	64	* †	Champaign
Hunt, Dorothy Harriet	HSAgr	34	* †	Cambridge
Hunt, Elma	SS	*	†	
Hunt, Florence Jennie	HSLAS (SS)	120	* †	Redott
Hunt, Leslie Leigh	SS	*	†	Clinton
Hunt, Marsden Healey	CerE	32	* †	Urbana

Hunt, Milton Tilmore	Com	35	* † Warsaw
Hunter, Adella Aileen	LAS	34	* † Champaign
Hunter, Lloyd Hiram	Com	33	* † Henry
Hunter, Margaret	HSLAS	64	* † Chillicothe
Huntington, Lloyd Lucius	AE		* † Pontiac
Huntley, Edgar Allen	ChE		* † Lead, South Dakota
Hurley, Frank John	Com	33	* † Chicago
Hurley, Luther Thomas	Com	4½	* † Liberty Mills, Indiana
Hurt, Milton John	Agr		* † Chicago
Hurst, Cornelia	HSLAS		† St. Charles, Missouri
Husson, Harry Lee	EE	101	* † Auburn
Husted, Merle Raymond	Agr	68	* † Roodhouse
Huston, Charles Jerome	EE		* † Chicago
Hutchins, Anna Elizabeth	HSLAS		* † Roscoe
Hutchins, Marjorie, B.Mus., 1915	LAS		† Urbana
Hutchison, Josephine Ladner	LAS	93	* † Mineral Point, Wisconsin
Hutchison, Lawton Hargrove	EE	71	* † Little Rock, Arkansas
Hutton, Clifford	Arch	32	* † Waterloo, Iowa
Hyde, Harvey Woolsey	ChE	36	* † Chicago
Hyde, Russell Choate Miller	LAS	37	* † Rantoul
Hysten, Harry Andrew	AE	36	* † Chicago
Ide, Hiram Russell	Agr	53	* † Washington, D. C.
Ide, Robert Armstrong	Com	32	* † Washington, D. C.
Igo, Harold Peoples	SS	6	* † New Wilmington, Pennsylvania
Ikemire, Colonel Earl	LAS		* † Louisville
Imes, Ralph	LAS	97	* † Macomb
Imlay, Raymond Edward	Agr sp		* † Zanesville, Ohio
Ingram, Ralph Lindsay	Agr	75	* † Chicago
Ingwers, Alfred Henry	Arch	72	* † Moline
Ingwersen, Burton Ahrens	ME		* † Fulton
Ingwersen, Henry Newton	Agr	101	* † Chicago
Ingwersen, John Arthur	LAS		* † Chicago
Ireland, Matilda Isabel	LAS	51	* † Washburn
Irick, Carl Cuthbert	MdP	62	* † Pittsfield
Isaacson, Oliver Theodor	ME	45	* † Sanborn, Minnesota
Isobe, Seiche	ME		* † Osaka, Japan
Iwig, Dorothy Josephine	HSLAS	60	* † Peoria
Jackson, Anna Elizabeth	LAS	45	* † Champaign
Jackson, Arthur Mells	SS	2	
Jackson, Caleb Flavious	CE	27	* † Anderson, Indiana
Jackson, Ernest Theodore	SS	45½	* † Odine
Jackson, Hobart Harry	ME		* † Kenney
Jackson, Luella Elizabeth	LAS	45	* † Ouray, Colorado
Jackson, Manley Seymour	AE	129	* † Pine River, Minnesota
Jackson, Martha Elizabeth	HSAgr	25	* † Urbana
Jackson, Thomas Henry	Agr	62	* † Champaign
Jacobi, Herbert Jacob	Arch sp	48	* † Milwaukee, Wisconsin
Jacobsen, Eda Augusta	HSLAS (SS)	135½	* † Urbana
Jacobsen, Leonora	SS		* † Sheffield
Jacobson, Carl Clifford	ME		* † Chicago
Jacobson, Henry George	Agr	68	* † Chicago
Jacquin, Wentworth Cary	Com	63	* † Peoria
Jahr, Myra Bertha	HSLAS	62	* † Neillsville, Wisconsin
Jakubowski, Stanley Anton	ME	36	* † Chicago
James, Donald Dulaney	LAS		* † Danville
James, Harriet Lillian	HSLAS	105	* † Amboy
James, Helen Ida	LAS (SS)	40	* † Whitewater, Wisconsin
James, Lenton Willis, B.S., 1916	SS	142	* † Canton
James, Russell Broadway	LAS	35	* † East St. Louis
James, Walter Pony	Agr	153½	* † Bloomington, Indiana
James, Walter Robert	Com		* † Oak Park
Jamison, Harold Edward	AE		* † Pontiac
Jamison, Ross Phillips	Agr		* † Pontiac
Janata, Anton James	LAS	23	* † DeKalb
Janssen, Elmer Theodore	Com	72	* † Sterling
Jagues, Charles Alva	Agr sp		* † Elmwood
Jasper, Lucinda Emmeline	HSLAS	26	* † Cornwall, England
Jean, Wing	Com (SS)	37	* † Canton
Jenkins, Lydia Geneva	LAS	65	* † Clark's Hill, Indiana
Jenkins, Nelson Durfee	EE		* † Oak Park
Jenks, Philip Dorsey	ChE	52	* † Indianapolis, Indiana
Jenner, Lawrence Tenney	Com	71	* † Evansville, Indiana
Jennett, Harold Patrick	EE	32	* † Streator
Jennings, Alma Irene	HSLAS (SS)	97	* † Champaign
Jensen, Jorgen Edward	EE	72	* † Chicago
Jensen, Myrtle Ruth	LAS		* † Chicago
Jervis, Katherine Belle, A.B., A.M., 1907, 1911	SS		* † Champaign
Jessen, Clifford Tvilstedgaard	Agr	31½	* † Alto Pass
Jessen, Virgil Tvilstedgaard	Agr		* † Alto Pass
Jewett, Eleanor Rountin	Agr	41	* † Chicago
Jockisch, Zelma Anna Elizabeth	HSLAS	97	* † Beardstown
Johansen, Fred Emil	AE	42	* † Chicago
Johns, Donald C	MinE	137	* † Danville
Johns, Edward Brauer	Com	5	* † Metropolis

Johns, Evelyn Gordon	HSLAS	89	* †	Danville
Johns, Marian Elizabeth	LAS	61	* †	Rockford
Johnson, Archie	CE		*	Mattoon
Johnson, Armer Clark	ME	5	* †	Rockford
Johnson, Carl Wilhelm	Com	33	* †	Batavia
Johnson, Claude Francis	ME	14½	* †	South Haven, Michigan
Johnson, Earl	SS	6¼	*	Peru, Nebraska
Johnson, Edwin Reynolds	Com	34	* †	Springfield
Johnson, Elfrith George	Agr	98	* †	Medna
Johnson, Elmer Thomas	CE		* †	Rockford
Johnson, Everett Louie	Agr	49	* †	St. Charles
Johnson, Fay Warren	MinE		* †	Sidney
Johnson, Floyd Henning	Com	65	* †	St. Charles
Johnson, Harry Edward	ME		* †	Omaha, Nebraska
Johnson, Helen Amanda	LAS	63	* †	Belvidere
Johnson, John Robert	LAS	29	* †	Decatur
Johnson, Joseph Benjamin	Agr	54	* †	Harrisburg
Johnson, Julius Nicholai	Com	103	* †	Elgin
Johnson, Leo Porter	Agr	23	* †	Stockton
Johnson, Mary Fern, A.B., 1916	Mus		* †	Urbana
Johnson, Nellie Mae	SS	7½	*	Sterling
Johnson, Otis Floyd	Arch	37	* †	West Point, Indiana
Johnson, Radford Murray	Agr (SS)	93	* †	Crossville
Johnson, Ralph Benjamin	ME	41	* †	Joliet
Johnson, Ralph N	Agr	36	* †	Knoxville
Johnson, Richard Henderson	Com	29	* †	Danville
Johnson, Robert Eugene	EE	120	* †	Lawrenceburg, Kentucky
Johnson, Ruby Emma	LAS (SS)	97½	* †	Rockford
Johnson, Sharon Perry	SS	8½	*	Cornell
Johnson, Theodore William	AE		†	Chicago
Johnson, Thorsten Ludwig	ChE		* †	Keokuk, Iowa
Johnson, Warren MacIntyre	Agr		* †	St. Louis, Missouri
Johnston, Douglas Gentry	Agr	32½	* †	Alton
Johnston, Harold Boomer	LAS	28½	* †	Champaign
Johnston, Hazen Henry	Com		* †	Ft. Wayne, Indiana
Johnston, James Martin	LAS	95	* †	Chapel Hill, North Carolina
Johnston, Lillian Ruth	HSLAS	66	* †	Champaign
Johnston, Paul Evans	Agr	100	* †	Milton
Johnston, Pauline	LAS sp	29	* †	Alton
Johnston, Wayne Andrew	Com	18	* †	Champaign
Jones, Alwin August	Com	28	†	Dewey
Jones, Bernicelyn Fishback	LAS		* †	Urbana
Jones, Bertha Marie, A.B., 1911	SS	138	*	Champaign
Jones, Dudley Emerson	Arch	104	* †	Little Rock, Arkansas
Jones, Earl Jesse	Com	59	* †	Gilbert, Iowa
Jones, Elizabeth Sophia	HSAgr sp	34	* †	Raymond
Jones, Florence Dorothea	HSLAS	31	* †	Raymond
Jones, Frances Beulah	HSAgr (SS)	103	* †	Champaign
Jones, Frank William	Agr	104	* †	Bloomington
Jones, George Wilson	MdP	61	* †	Evanston
Jones, John Paul	Com		* †	Kokomo, Indiana
Jones, Leland Burns	LAS		* †	Douglas, Arizona
Jones, Mack Marquis	EE	78	* †	Tonkawa, Oklahoma
Jones, Marian Lucile	HSAgr	88	* †	Fort Smith, Arkansas
Jones, Margorie Ann	HSLAS		* †	Kirkwood, Missouri
Jones, Marvel Armorel	LAS	39	* †	Urbana
Jones, Paul Clifford	EE	111	* †	Henry
Jones, Ralph Coaghenoun	Agr		* †	Fairfield
Jones, Sarah Lulu	HSAgr (SS)	5	* †	Urbana
Jones, Trevor Leslie	Agr	33	* †	Chenoa
Jones, Vera Gretchen	LAS		* †	Urbana
Jones, Vivian Myfanny	LAS		* †	Aurora
Jones, Walter Earl	Com		* †	Ridgefarm
Jones, Walter Ortis	Com (SS)	111½	* †	Champaign
Jones, Warren Paul	Agr	76	* †	Chicago
Jones, William Joseph	Com	30	* †	Elgin
Jones, William Robert	SS	69	* †	Kirkland
Joston, Ehme John	Agr	64	* †	Flanagan
Jordan, Clarence Levi	Com		* †	Mt. Carmel
Jordan, Roy Vail	SS	23¾	*	Rinard
Jorgensen, Rufus Inglebert	AE		* †	Green Bay, Wisconsin
Joseph, Stanley Earl	SS		*	Grand Rapids, Michigan
Joslyn, Gladys Irene	HSLAS	24	* †	Marengo
Judd, Elizabeth Gladys	LAS	61	* †	Urbana
Judd, Garnet Wilson	LAS		* †	Urbana
Judson, Frank Monteath	Com	104½	* †	Chicago
Julian, Scott Millholland	Agr	69	* †	Little Rock, Arkansas
Juline, Carl	Arch		* †	Des Moines, Iowa
Junken, Bether Sarah	HSAgr sp		* †	Rushville, Indiana
Kaaz, Arthur Otto George	Arch		* †	Atchison, Kansas
Kadyk, David James	LAS	34	* †	Fulton
Kaehler, Oscar Henry	EE		* †	Chicago
Kahl, Charles Nathaniel	ME		* †	Jacksonville
Kahler, Laura	LAS		* †	Belvidere
Kalivoda, Joseph John	ME	72	* †	Chicago

Kalthoff, Frederick Caspar	AE (SS)	69	* † Chicago
Kamm, Harry Lee	SS	7½	† Guard
Kamp, Henry Wilbur	LAS	101	* † Watsela
Kane, William Harold	CerE (SS)	71	* † Wellsville, New York
Kaplan, Samuel	MinE sp		* † St. Louis, Missouri
Kapps, Susan Elisa	HSLAS		* † Oak Park
Karch, John	SS		† Mt. Vernon
Karkow, Conrad Hansen	Law	61	* † Chicago
Karn, Albert Harry	SS	1	† Grahamsville, Ohio
Kasserman, George William	LAS	18	† Newton
Kasserman, Homer Frank	LAS	58	† Newton
Kaufman, David Louis	Com	28	* † Bellefontaine, Ohio
Kaufmann, Adolph Henry	ChE	105	* † Chicago
Kawin, Louis	LAS	34	* † White Hall
Kayser, Alfred Charles	CE	27	* † DesPlaines
Kayser, Clarence Samuel	AE (SS)	69	* † Decatur
Keagy, Abraham Reuel	ME	99	* † Hot Springs, Arkansas
Keatts, Rolla Merl	ME	35	* † Tuscola
Kech, Alphonse Leibundguth	CE	24	* † Chicago
Keck, Charles Everett	Law	55½	* † Champaign
Keck, George Fred	AE	41	* † Watertown, Wisconsin
Keck, Marjorie Aileen	Mus (SS)	4	* † Champaign
Keefer, Caroline	LAS	22	* † Amboy
Keehner, Clarence Barnhard	Com		* † Jerseyville
Keen, George Frederick	Com		* † Kendallville, Indiana
Keepers, Floyd Willard	Agr	32	* † Mazon
Keepers, Lloyd William	Agr	32	* † Mazon
Kegley, Robert Britton	Com		* † Urbana
Keiffer, Lawrence Raymond	EE	71	* † Robinson
Keith, Emma Genevieve	LAS	65	* † Hinckley
Keith, Margaret	LAS	26	* † Lockport
Kell, Sherman Little	SS	130	† Kell
Kelley, Edith Maurine	LAS	33	* † Camp Point
Kelley, Francis Hugh, B.S., 1916	SS	138	† Urbana
Kelley, Iva	LAS	62	* † Urbana
Kellogg, Wilbur Fisher	ME		* † Marshall
Kells, Lyman Morse	Mus sp		* † Sank Center, Minnesota
Kelly, Henry Eli	CE	73	* † Charleston
Kelly, John Thomas	ME	73	* † Oak Park
Kelly, Paul Brown	Com		* † Mattoon
Kelly, Philip John	Com	34	* † Chicago
Kemler, Robert Lynch	EE		* † Elgin
Kemp, Arnold Raman	Agr (SS)	105½	* † Waynetown, Indiana
Kemp, Charles Delbert	Agr	28	* † Waynetown, Indiana
Kendall, Forrest Everett	Agr		* † Victoria
Kendall, Mary Lilly	SS	64	† Farmer City
Kennedy, Emily Jane	LAS		* † Morrison
Kennedy, James Walsh	Com	30	† Urbana
Kennedy, Kaywin	Law	101	* † Minonk
Kennedy, Marguerite	LAS	34	* † Morrison
Kennedy, Thomas	Com		* † Aurora
Kennelley, Griffith Sidney	CerE	43	* † Joliet
Kenney, Mrs. Pearl Craven	SS	5½	† Cobden
Kenney, Wendell Lyon	ME		* † Champaign
Kenny, Edith Luella	LAS		* † Mulberry, Indiana
Kenny, Marion Katherine	HSAgr	33	* † Champaign
Kent, Clifford P	Com		* † Olney
Kent, Everett Frank	Agr	113	* † Gridley
Kent, Horace Ellsworth	SS	54	† Urbana
Kent, Paul Fraser	Arch	62½	* † Gridley
Kenworthy, Anna Jane	LAS		* † Neoga
Kerber, Ruth Leah	LAS		* † Elgin
Kern, Florence Ellen	HSAgr	98	* † Champaign
Kern, Vernon Harlow, B.S., 1916	Agr		* † Gays
Kerner, Julius Caesar	ME	111	* † Cicero
Kerns, Edward Lincoln	Com	5	* † Moline
Kerr, Edwin Virgil	Agr	37	* † Metropolis
Kerr, Emmett Earl	AE		* † Fort Worth, Texas
Kerr, Ralph	Agr	17	* † Urbana
Kerrick, Donald Meridith	Agr		* † Chrisman
Kershaw, Glenwood Haigh	ME		* † Kanikakee
Kershner, Karl Kenneth	SS		† Raymond
Kessinger, Samuel Wesley, Jr.	LAS		* † Litchfield
Kessler, Paul	AE		* † Bloomfield, Indiana
Ketch, James Moss	EE	73	* † Decatur
Ketelhut, William Hermann	EE	32	* † South Haven, Michigan
Keusink, Helen Bertha	HSLAS (SS)	98	* † Champaign
Keyes, Hubert Ashingdon	MdP	25	* † Chicago
Keyes, Otis Walton	SS	11	† Rantoul
Kidd, George Wilson	CE	135	* † Chicago
Kidd, Harold Frank	SS	3	† Chicago
Kidd, Lilace Mazoe	LAS	97½	* † Astoria
Kidston, Roy Palmer	Agr	32	* † Chicago
Kiester, Alta Mae	LAS	60	* † Garden Prairie
Kilbride, Edward Robert	Agr (SS)	32	* † Springfield

Kile, Billye	Com	21	* † Rockford
Kile, Laura LaRhue	SS	28½	* † Rockford
Killefer, Raymond Colonius	LAS		* † Mattoon
Kilpatrick, Ralph Sidney	Com	36	* † Elmwood
Kimball, Frank Sherman	Chem	49	* † Rockford
Kimman, John William	Agr	30	* † Chicago
Kimmel, Clarence Eugene	Law	123	* † Duquoin
Kimmelshue, William Maurice	Agr		* † Manteno
Kincaid, Ruth Moore	HSLAS	98	* † Farmer City
Kiner, Howard Dickens	Law	87	* † Geneseo
Kiner, Verne Bardwell	Com		* † Marseilles
King, Burton Eldred	Agr	44	* † Plymouth
King, Edward Herschel	Com (SS)	98½	* † Athens
King, Esther	LAS	32	* † Lake Forest
King, James Carroll	AE	22	* † Rockford
King, James Xenophon	Agr	57½	* † Richmond, Indiana
King, Leo Francis	Com		* † Indianapolis, Indiana
King, Merrill Burnett	Com (SS)	8	* † Bridgeport
King, Vincent Paul	Agr	70	* † Indianapolis, Indiana
King, William	LAS (SS)	7½	* † Dudley
Kingery, John David	Com		* † Chadwick
Kingsley, Donald Henry	Agr	34	* † Alden
Kingsley, Lester Harris	Agr		* † Chicago
Kingsley, Wendell Lathrop	Agr	93	* † Chicago
Kinnane, Charles Hermon Thomas	LAS		* † Centralia
Kinnear, Meyer Aurelius	Agr		* † Rushville
Kinsey, Alfred Richardson	Agr	97	* † Centralia
Kinsey, Jack	Agr	97½	* † Mackinaw
Kipp, John George Estill	LAS (SS)	111½	* † St. Louis, Missouri
Kirby, Harry Anton	EE	69	* † Indianapolis, Indiana
Kirchhofer, Emma Esther	Com	26	* † Kansas City, Missouri
Kirk, Bertha May	LAS	101	* † Decatur
Kirk, Ewing Leavitt	Com		* † Mansfield
Kirkland, Elmore Archibald	Com		* † Decatur, Iowa
Kirkland, Robert Dudley	Com		* † Urbana
Kirkland, Therese Elizabeth	HSLAS		* † Cambridge
Kirkpatrick, Florence Mabel	HSAgr		* † Urbana
Kirkpatrick, Frank Allen, B.S., M.S., 1914, 1916	SS		* † Unionville, Michigan
Kirkpatrick, Harry Louis	Com (SS)	27½	* † Des Moines, Iowa
Kirkpatrick, Helen Marie	HSLAS	101	* † Urbana
Kirkpatrick, Mildred Irene Wyrick	Mus	13	* † Pana
Kirkpatrick, Thomas Everett	Agr	63	* † Clayton
Kirner, Walter Raymond	ChE	73½	* † Chicago
Kirtland, Dwight Bannister	Agr		* † Oblong
Kirwan, Nora Godsell	Mus		* † Champaign
Kiser, Helen Mynette	HSLAS	99	* † Champaign
Kissinger, Donald Kenneth	Com		* † Bradford
Kittelsen, John Stewart	Agr		* † Rock Island
Kixmiller, Karl William	LAS	34½	* † Freelandville, Indiana
Klank, Frances Grace, A.B., 1916	Lib		* † Champaign
Klapprodt, Adolf Hantz	MinE		* † Amboy
Klapprodt, Charles Russel	Agr sp		* † Dixon
Kleckner, George Malburn	Com		* † Freeport
Klein, George Minnie	SS		* † Urbana
Klein, Gordon	AE	71	* † Urbana
Klein, John Leo	Com	71	* † Omaha, Nebraska
Klein, Monica A	LAS		* † Urbana
Klein, Nancie	LAS (SS)	95½	* † Urbana
Kleinbeck, Augustus Gustave	LAS	54	* † Litchfield
Klemmedson, Arthur Erick	Agr	68½	* † Colorado Springs, Colorado
Klemmedson, Gunnar Siegmund	Agr	68½	* † Colorado Springs, Colorado
Klenk, Frederick	CE	36	* † Philadelphia, Pennsylvania
Klindwirth, Mildred Louise	LAS (SS)	114	* † Philo
Kline, Alice Harper	LAS	28	* † Huntington
Kline, Arthur LaVerne	Agr	66	* † Chicago
Kling, Carl Lawrence	CerE	66	* † Dixon
Klink, William Lee	Com	73	* † Cerro Gordo
Kloppenburgh, George Joseph	LAS	51	* † Springfield
Klorfine, Meyer	LAS		* † Chicago
Klotz, Vera	LAS	65½	* † Hood River, Oregon
Klotzsche, Baynard Taylor	Com	46½	* † Irvington
Klotzsche, Bessie May	LAS (SS)	71	* † Irvington
Klotzsche, Eunice Esther	SS	7	* † Irvington
Knapheide, Mildred Carey	LAS		* † Quincy
Knapp, John Robinson	Com sp		* † LaGrange
Knappenberger, John Meredith	Com	97½	* † Kansas City, Missouri
Kneeshaw, Mary Jane	HSAgr	61	* † Niles, Michigan
Knetsch, James Dewey	Agr		* † Paw Paw
Knight, Ewart Broughton	Agr	70	* † Chicago
Knight, Galen Victor	Com	35	* † Urbana
Knight, Hubert Willard	EE		* † Somonauk
Knoche, John Christian	Agr	105	* † Onarga
Knop, Robert Oscar	ChE (SS)	30	* † Chicago

Knowles, Jennie McKelvy	SS				
Knowles, Robert Reily	SS	3			Denver, Colorado
Knowlton, Henry Irving	ME		* †		Sheffield
Knox, Harry Gaylor	LAS (SS)	107	* †		LaFayette, Indiana
Knudsen, Mrs. Charles William	SS	6½			Eureka
Knudsen, Niels Alfred	AE	111	* †		Halfa, Iowa
Knudson, Harold Epler	Agr	15	* †		Farmingdale
Kobayashi, Toshiyuki	Com				Tokyo, Japan
Kober, Edgar Irving	Arch	71	* †		Waterloo, Iowa
Koch, Eloise	LAS	104	* †		St. Louis, Missouri
Koch, George Washington	Com				Davenport, Iowa
Koehler, Glenn	EE	78	* †		Van Wert, Ohio
Koepke, Frank Henry Paul	EE	25	* †		Chicago
Koepke, Herman Frank	CE (SS)	76	* †		Chicago
Kohl, Justin Ferdinand	Com	88	* †		Centralia
Kohl, Rowena Agnes	LAS	60	* †		Centralia
Kohler, Raymond Lloyd	LAS	25	* †		Chatsworth
Kohn, John Louis	Com	98	* †		Elgin
Kohner, Edwin M	Com				Chicago
Kolar, George Franklin	MSE	71	* †		Chicago
Kolb, Merle Arthur	ME	70	* †		Oak Park
Kolmer, Albert Conrad	Agr	30	* †		Waterloo
Kolmer, Otto Peter	Agr (SS)	96½	* †		Waterloo
Kompass, Frederick Bunker	Com	30			Niles, Michigan
Komrosky, Morris Louis	Arch				Gary, Indiana
Koo, Shun	RCE (SS)	50	* †		Kwang-Fung, China
Koos, Harold George	Com				Grand Mound, Iowa
Kopf, Frank Alexander, A.B., 1916	SS	130			Peoria
Kopelman, Leo Theodore	Com	67	* †		Maquoketa, Iowa
Kopp, William Kenneth	Com				Chicago
Koptik, Bohumil James	Agr (SS)	102½	* †		Cicero
Koptik, Ernest Andrew	LAS				Cicero
Koupal, Walter George	ChE	34	* †		Crown Point, Indiana
Kraeckmann, Walter Ernest Louis	Agr	32	* †		Chicago
Kraft, Adolph	LAS	30	* †		Gilman
Kraft, August	EE (SS)	22	* †		Gilman
Kraft, Reynold Rudolph	MinE (SS)	81	* †		Oak Park
Kral, Albert Alva, Jr.	EE	17	* †		Chicago
Kramer, Charles Henry	AE				Alton
Kramer, Erwin Albert	AE				Chicago
Krametbauer, Irma Theresa	LAS	33	* †		Chicago
Krannert, Victor Louis	Com	36½	* †		Chicago
Krase, Herbert John	ChE	108	* †		Chicago
Krase, Norman William	ChE	72	* †		Chicago
Kratzenberg, Edwin John	EE	62	* †		Chicago
Krael, Philip Leone	ME	82	* †		Champaign
Kraus, Harry	LAS	35	* †		Chicago
Krauss, Thomas Fredrick	SS	7½			Jonesboro
Kreider, Paul Gates	LAS	67			Springfield
Kreidler, Chester Jamison	Com	72	* †		Oak Park
Kreiling, Robert Graham	ChE	103	* †		Chicago
Kreistein, Bernard	Com				Chicago
Krieg, Amelia Adeline	LAS (SS)	98	* †		Chicago
Kriegl, Otto	EE (SS)	66½	* †		Innobraunck, Austria
Kriewitz, John Gustav	Agr	101	* †		Chicago
Kroeschell, Roy Sittig	ME (SS)	83	* †		Winnetka
Kroner, Frederick Louis	LAS	32	* †		Mahomet
Krueger, Gerald August	Agr				Chicago
Krueger, Kurt Carl	Chem	54	* †		LaSalle
Krug, Louis Gustave	ChE	127	* †		Chicago
Kruger, Theodore	ME sp				Peoria
Krumm, Gretchen Emma	LAS	38	* †		Chicago
Krupar, Charles	Arch	67	* †		Morton Park
Kuch, Mildred Carolyn	LAS				Farmer City
Kucheman, Norman Albert	ME				Moline
Kuechler, Ernest Charles	Agr	28	* †		Alvin
Kuehl, Elsie Elvira	LAS				Edwardsville
Kuehn, George Walter	ME	106	* †		Chicago
Kugler, Martha	LAS				Plano
Kugler, Martin Billmire	Agr	115	* †		Plano
Kuhl, Franklin	Com				Springfield
Kuhn, George Lewis	Com				Muscatine, Iowa
Kull, Karl Robert	Agr	29½	* †		Shelbyville
Kurt, Mary Annetta	HSLAS (SS)	31	* †		Champaign
Kurtzrock, Edward Valentine	Law	60	* †		Dixon
Kyger, Roy Jay	LAS (SS)	18			Danville
Kyler, Bessie Belle	LAS				Winslow
Laatz, Ernest Charles	Agr				Marseilles
Lacey, John James	Agr	100	* †		Elwood
Lacey, Marguerite Helen	LAS				Elwood
Lackey, James Potter	MdP				Hopkinsville, Kentucky
Ladd, Winslaw Curtis	ME				Taylorville
Ladehoff, Arthur Detlef	AE	74	* †		Clinton, Iowa
Lafferty, George Gustavus	SS	45½			Galesburg
Lafferty, Mrs. Lee Anna Hague	SS				Galesburg

Lafferty, William Delmar	Agr		* † Clinton
LaFollette, Robert Roy	Agr <i>sp</i>		* † Thornton, Indiana
Lager, Eric Willard	ME		* † Chicago
Lagergren, Gustaf Petrus	Arch	178	* † St. Paul, Minnesota
Laible, Russell James	Agr	33	* † Freeport
Laing, Walter A.	Agr	96	* † River Forest
Lalor, Foster Mitchell	LAS	23	* † Franklin Park
Lamb, Hallie Eunice	LAS	101½	* † Champaign
Lamb, Howard Earl	LAS (SS)	99	* † Hillsdale, Michigan
Lamb, John, Jr.	Agr	67½	* † Worden
Lamb, Robert Madison	SS	7½	* † Sturgis, Kentucky
Lambert, Dana Carlin	Agr	33	* † Coatsburg
Lambert, Robert Wayne	Agr		* † Rushville
Lambroff, Gregory Vassiliff	EE	80	* † Madison
Lamkins, Lloyd E., B.S., 1916	SS	144½	* † Urbana
Lampert, Florian, Jr.	AE	73	* † Oshkosh, Wisconsin
Lamport, Leonard Rollings	EE		* † Chicago
Lanan, Guy	Agr	117	* † Kingston
Lancaster, Allen H.	Agr (SS)	87½	* † Ridgefarm
Lancaster, Frederick Paul	Com		* † Maywood
Lander, Ruth Esther	LAS		* † Alfred, Maine
Landon, George	LAS	64	* † Chicago
Landstrom, Adolph Walter	ChE	107½	* † Chicago
Landstrom, Roy William	Agr	33	* † Chicago
Lang, Alvin Leonard	Agr (SS)	37	* † Urbana
Langdon, Paul Eugene	CE		* † Chicago
Langellier, Floyd Edwin	AE		* † St. Anne
Langenstein, Charles Bee	Agr		* † Dakota
Langwith, Warren LeRoy	ChE	20	* † Davenport, Iowa
Lansden, Effie Allan	SS		* † Cairo
Lanum, Ralph Lewis	Com		* † Decatur
Larimer, Floyd Conway	Com		* † Oskaloosa, Iowa
Larkin, Thomas Cecil	EE		* † Onarga
Larkin, Willard Ford	Com	11	* † Rock Island
Larson, Carl Clarence	Chem	68	* † Mazon
Larson, Edward	ChE		* † Galva
Larson, Elsie Frances	SS	6½	* † Chicago
Larson, Walter Nels	MSE	28	* † Paxton
Lascelles, Robert John	Com	96	* † Capron
Lash, Clarence Roy	Agr		* † Big Rock
LaTeer, Angie	HSLAS	42	* † Paxton
Lathrop, John Sherman	Agr	33	* † Chicago
Lathrop, William Grant	LAS	97½	* † Sumner
Lattner, Ulysses Simpson	ME	36	* † Rock Island
Lauder, Frederick Houlton	LAS	46	* † Monmouth
Lauphit, Tse	Agr	70½	* † Shanghai, China
Laurenson, Ed J.	SS		* † Downey, Idaho
Lauritzen, Marion Marie	LAS	65	* † Chicago Heights
Lauterbach, Walter Wesley	LAS		* † Bushnell
Laval, Marcelle Vere	LAS	21	* † Wilmette
Lavelle, Charles Nathan	Com		* † Freeport
Lavery, Ruth Aileen	Mus <i>sp</i>	6	* † Decatur
Lawler, Bernice Catherine	HSLAS		* † Rushville
Lawrence, Charles Henry	Agr	69	* † Woodstock
Lawrence, Leland Lamont	LAS	30	* † Champaign
Lawrence, Ralph E.	Arch	115	* † Ripon, Wisconsin
Lawrence, Roland Hall	ME	107	* † Chicago
Lawrence, Sherman Gaines	Com		* † Chicago
Lawson, John Harold	Com		* † Kewanee
Lawson, Roy Emerson	SS	6½	* † LeRoy
Lawton, Chauncey Wenzlaff	LAS	28½	* † Yankton, South Dakota
Lay, Dwight Matthews	Agr <i>sp</i>		* † Kewanee
Layfield, Ivan McLean	LAS		* † Urbana
Leach, Paul Jackson, B.S., 1916	SS	143½	* † Macomb
Leach, Robert Lincoln	Agr	30	* † Rockford
Leake, Ethel Louise	SS		* † Dixon
Leander, Elmer Isidor	CE	106	* † Chester, Indiana
Leary, William Andrew	Com		* † El Paso
Lease, Alice Clare	SS	14½	* † Quincy
Leathers, Doyle Revere	SS		* † Renovo, Pennsylvania
Lee, Alfred Chang	CE	122	* † China
Lee, Arthur	Arch	72	* † Hudson, Wisconsin
Lee, Carrie Alice	Mus	85	* † Champaign
Lee, Fannie	HSLAS	32	* † Reynolds
Lee, John Norman	Law		* † Carbondale
Lee, Ping Fun	ME	95	* † Hong Kong, China
Lee, Tao Nan	Com (SS)	77	* † Nanking, China
Lee, Tsz Sien	RCE	28	* † Ho-yun, China
Lee, Wilkie Albert	Agr	3	* † Earlville
Leedle, Jessie Mariam	LAS	33	* † West Chicago
Leeds, Marcia Marney	LAS		* † Mt. Carmel
Leeds, Winston Bryan	LAS		* † Mt. Carmel
Leeming, Tom	LAS	51	* † Chicago
Leeche, Marion Elanie	LAS	34	* † Chicago
Lee Toma, EnPon	SS	28	* † Honolulu, Hawaii

Lee Toma, Esther EnMoi	LAS (SS)	53	* † Honolulu, Hawaii
Leggett, Charles Martin	Com		* † Chicago Heights
Leggitt, Frank	Agr (SS)	122	* † Urbana
Leggitt, Fred William	Agr (SS)	94	* † Urbana
Legner, Roger Hopkins	Com	13½	* † Chicago
Lehman, Lewis Harry	CE	111	* † Mattoon
Lehman, Ruth Townsend	HSLAS	69	* † Millington
Leichsenring, Jane Marie	HSLAS	33	* † Winnetka
Leinard, Kenneth Earl	CE		* † Bryan, Ohio
Leist, Claude	LAS (SS)	62	* † Paris
Leitzbach, Elizabeth	LAS (SS)	41	* † Fairmount
Lemen, Eldridge	Agr		* † Allon
Lemond, Isabel Josephine	LAS		* † Huntingburg, Indiana
Lemp, John Frederick	ChE	114	* † Allon
Lendman, Alfred Nohe	EE	108	* † Sterling
Lentz, Leo Francis	Agr		* † Anna
Lenz, Andrew Henry	SS	140	* † Quincy
Lenzen, Aloysius Francis	MdP	102	* † Peru
Leppla, George Charles	LAS		* † Chicago
Lerch, Edward	AE	106½	* † Rock Island
LeSaulnier, Marie	LAS		* † Red Bud
Leslie, Madge Campbell	LAS	99	* † Pittsfield
Lett, Hamlet Harrison	Agr	66	* † Washington, Indiana
Levinson, Anna Ella	SS	7	* † Paxton
Levinson, Martin Charles	AE	103	* † Chicago
Levy, Beatrice Esther	LAS	33	* † Sreator
Lewis, Alden George	Chem		* † Green Bay, Wisconsin
Lewis, Ardenia Moree	HS Agr sp		* † Camp Point
Lewis, Arthur Warfield	Agr	66	* † Harrisburg
Lewis, Henry Fletcher	Law sp		* † Murphysboro
Lewis, Henry Foster, Jr.	LAS		* † Chicago
Lewis, John Taylor	AE	110	* † Rockford
Lewis, John Timothy	Agr		* † Chatham
Lewis, Kenneth S	MdP		* † Wheaton
Lewis, Mabel	SS	6½	* † Stone Fort
Lewis, Marie Ellene	LAS		* † Rockford
Lewis, William Baker	LAS		* † Harrisburg
Lewis, William Henry	Com (SS)	60	* † Granite City
Lewitan, Leo	ME	22	* † Chicago
Leydorf, Sister Mary Innocents	SS	6	* † Nauvoo
Li, Szu Kuang	Com	98½	* † China
Liang, Ping	Com		* † Canton, China
Libman, Anna	LAS	68	* † Chicago
Libonate, Roland Victor	MdP		* † Chicago
Lichtenberger, Cleo			
B.S. (James Milliken Univ.) 1911			
Lichtmann, Samuel Arthur	Lib		* † Decatur
Lieber, Ruth Evaline	Arch		* † Chicago
Lieberman, Emmanuel Harold	LAS	60	* † Winnetka
Liedel, Russell Brooke	EE		* † Cleveland, Ohio
Lies, Arthur Nicholas	Law	99	* † Springfield
Liggett, Ruth Elizabeth	ME		* † Chicago
Liggitt, Charles Chesterfield	LAS	28	* † Camp Point
Lilley, Robert W	Agr sp		* † Normal
Lin, Thian Kitt	ME		* † Aurora
Lindahl, Florence Elnora	Com (SS)	109	* † Canton, China
Lindberg, Albin Ednar	LAS (SS)	38	* † Wayne
Lindeberg, George Leonard	ME	23	* † Princeton, Michigan
Linder, Isham Doyle	Arch	85	* † Chicago
Linder, Mary Sefton	MdP	30	* † Carrollton
Linder, Roscoe George	LAS	90½	* † Charleston
Linderoth, Samuel Joseph	SS	6	* † Chandlerville
Lindholm Karin Josephine	Arch (SS)	88½	* † Chicago
Lindley, Frances Ethlyn	LAS (SS)	24	* † Elgin
Lindsay, Edward Frantz	SS	7	* † Neoga
Lindsay, Lawrence	Agr sp		* † Chicago
Lindsey, Adrian Herve	Agr		* † Chicago
Lindsey, John Roger	Agr	33	* † Bryan, Ohio
Lindsey, Leon Mason	Agr	104	* † Urbana
Lindsey, Ralph Elder	ME	107	* † Onarga
Linebarger, Lois	AE	95½	* † Bryan, Ohio
Linendoll, Harry Alexander	HSLAS		* † Elwood
Link, Rue Showalter	ChE	102	* † Chicago
Linnard, Elmer Walfred	Com	13	* † Paris
Linnec, Henry Wilson	Agr	115	* † Peotone
Linton, Hazel Marie	ME	63	* † Lake Bluff
Linton, Ralph	Mus	7	* † LeRoy
Linton, Mrs. Rolfe	SS		* † Philadelphia, Pennsylvania
Little, Aaron James	SS		* † Trenton, New Jersey
Little, Adelbert Dudley	SS	8	* † Milwaukee, Wisconsin
Little, Elmer Phelps	AE	103	* † Genoa
Little, Ethel Esther	LAS		* † Champaign
Little, George Edkine, Jr.	LAS	113	* † Champaign
Littler, Nelle Maude	SS	6½	* † Washington, D. C.
Littrell, Donald Bennett	LAS	60	* † Sterling, Colorado
Liu, Nai Yu	Arch		* † Colfax, New Mexico
	Com (SS)	70½	* † Washington, D. C.

Liu, Yu	CE			* † Tientsin City, China
Lively, Carlos Alcuin	LAS	63		* † Oblong
Livingston, Alfred Jr.	ChE (SS)	40		* † Champaign
Livingston, James Kenten	ME			* † Champaign
Livingston, Mrs. Kate Hope	LAS (SS) sp	4½		* † Champaign
Livingston, Thomas Morgan	Agr			* † Minonk
Llewellyn, Harry Corson	Agr	34		* † LaGrange
Llewellyn, Hazel Irene	LAS	60		* † Prophetstown
Llewellyn, Marie Edith	LAS			* † Prophetstown
Llewellyn, Marjorie Kauffman	HSAgr	28		* † LaGrange
Llewellyn, Pauline	HSAgr			* † LaGrange
Lloyd, Hosea Alvin	SS	7		* † Marion, Indiana
Lloyd, Lawrence Duncan	LAS			* † Callin
Lloyd, Sergins Hopkins	Agr	29		* † Genoa
Locke, George Ferguson	Agr	44		* † LaSalle
Lockhart, Harold Leo	ME	31		* † Owensville, Indiana
Lockhart, Hester Louise	HSAgr sp			* † Urbana
Lockwood, Isabel Kathryn	LAS	67		* † Chicago
Lockwood, William Frederick	LAS			* † Kankakee
Lofquist, Gerald Albert	CE			* † Chicago
Logan, Emily Washington	LAS			* † Kirkwood, Missouri
Logan, Frank Allyn	Com	100		* † Paris
Logsdon, Joseph Ezra	Law	108		* † Shawneetown
Logue, Burton Wooley	LAS	36½		* † Nashville, Tennessee
Loman, James Clifton	SS	7		* † Geneva, New York
Long, Alberta Mary-Alice	HSLAS			* † Chicago
Long, Jesse Richard	LAS	26		* † Sumner Hill
Long, Leonard Franklin	LAS (SS)	101		* † Tonica
Long, Robert Louis	Com			* † Edwardsville
Long, Ruth Ida	LAS	67		* † Watska
Long, Samuel Parks	Chem			* † Springfield
Loomis, Clayton Benjamin	Agr	95		* † Chicago
Loomis, Emily Fidelia	HSLAS			* † Chicago
Lopez, Leonor	LAS			* † Champaign
Lord, Arthur Hardy	SS	7		* † Hanover, New Hampshire
Lorentz, Robert William	Arch			* † Chicago
Losee, Donald Maynard	LAS			* † Chicago
Loughery, Harold Barker	MdP	33		* † Palestine
Lowrath, Percy David	Agr			* † Champaign
Louret, Francis	Agr	102		* † Waldo, Wisconsin
Love, Beryl Franklin	LAS	62		* † Danville
Love, Harry Halme	LAS	61		* † Newton
Love, Irene Leora	LAS			* † Urbana
Lovejoy, Charles Ernest, Jr.	Com			* † Chicago
Lovell, Clarence B	ChE	48		* † Libertyville
Lovell, M McDonald	Arch	109		* † Chicago
Lowe, Albert Stafford, Jr.	ME	24		* † Shawneetown
Lowe, Cyrus Ching Chung	Com (SS)	42½		* † Washington, D. C.
Lowe, Lucy	Mus	9		* † Urbana
Lowe, Wayne Marsh	ChE	42		* † Chicago
Lowery, Thomas Edwin	Agr	37		* † Springfield
Lowitz, Jack	Com			* † Chicago
Lowry, Bess	LAS	96		* † Lead, South Dakota
Lowry, John Thomas	Agr sp			* † Champaign
Lu, Ching Kui	ME (SS)	111		* † Moukden, China
Lu, Shon Cheng	LAS			* † Foochow, China
Ludlow, Helen	LAS	62		* † Paxton
Ludwig, Ethel Lenore	HSLAS	95		* † St. Louis, Missouri
Luebbers, George Jansen	Agr sp			* † Emden
Lueder, Herman Hinman	AE	141		* † Cherokee, Iowa
Lueder, Roy Moore	AE	110		* † Cherokee, Iowa
Lui, Ping Ho	ME			* † Canton, China
Lumley, Arlene	LAS	33		* † Urbana
Lummis, Irwin Lytle	ME	111		* † Quincy
Lund, John Virtus	CE (SS)	111		* † Elgin
Lund, Kenneth Wagner	Com			* † Rockford
Lundbeck, Orel Rudolph	ME sp			* † Oak Park
Lundberg, Bruce Gurler	Agr	85		* † DeKalb
Lundberg, Henry Burler	Agr	69		* † DeKalb
Lundeen, Curt Carl	AE	111		* † Rock Island
Lundgren, Arnold Alinder	CE	35		* † Rockford
Lundgren, Floyd Edward	EE	72		* † Losant
Lungren, Arthur Nathaniel	ME	123		* † Aurora
Lurie, Sidney Joseph	EE	118		* † Chicago
Lusk, Genevieve Aron	HSAgr	98		* † Quincy
Lutes, Gifford W	Arch	111½		* † Lutesville, Missouri
Luther, Wilhelmina Caroline	LAS	27		* † Champaign
Lutz, Zoe	MdP			* † Findlay
Lyman, Bernard Anthony	LAS	12		* † Champaign
Lyman, Mary Agnes	LAS	66		* † Champaign
Lynch, Frank Todd	SS	5½		* † Independence, Iowa
Lynch, Margaret	HSLAS	67		* † Urbana
Lynn, Chester Vernon	EE	14		* † Henderson, Kentucky
Lynn, Ernest Lee	LAS			* † Washington, D. C.
Lyon, Carlos Elmendorf	Com	31		* † Decatur

Lyon, Eunice Taylor	LAS		* †	Dubuque, Iowa
Lyon, William Ranft	LAS	32	* †	Riverside
Lyons, Lillian Helen	Agr		* †	Urbana
Lyons, Oscar Ivan	ME	73	* †	Hoopeston
McAdam, Charles Thomas	LAS sp		* †	Pana
McAfoos, Roy Earl	Agr sp		* †	Ewing
McBride, Charles Bernard	CE	63½	* †	Perryville, Missouri
McBride, Howard Inman	ME	27	* †	Chicago
McCabe, John James	Com		* †	Rantoul
McCaffrey, Leslie Bernard	Com	33	* †	Highland Park
McCallister, Roy Ivan	Com	31	* †	Carmi
McCammon, Martha	LAS (SS)	67	* †	Urbana
McCandless, Bryce L	Agr sp		* †	Newton, Kansas
McCandlish, Fred Raymond	Agr (SS)	110	* †	Toledo
McCarroll, James Shipp	Agr	60	* †	Owensboro, Kentucky
McCaskill, Hadyn Anson	Agr	24	* †	Taylorville
McCaskill, Lyman Clauson	Agr (SS)	57	* †	Taylorville
McCaskill, Valden Maurice	Agr		* †	Taylorville
McCaughtry, Ruth Corinne, A.B. (Drury College) 1912	Lib		* †	Carthage, Missouri
McCay, Clive Maine	LAS		* †	Champaign
McCleary, Gladys Selinda	Agr	57	* †	Chadwick
McClellan, Kenneth Butler	Agr	106½	* †	Chicago
McClellen, Russell Clyde	EE	36	* †	Urbana
McClelland, Charles Benjamin	SS	21%		Williamsville
McCloud, James Forsyth	Com	104	* †	Sheldon
McCluer, Donald	Agr	72	* †	Jackson, Mississippi
McClure, Adelle Elizabeth	Mus	78	* †	Atlanta
McClure, Helen Orra	SS			Joliet
McClure, Hugh Cameron	SS	6½		DeLancey, New York
McCollister, Isaac Frost	ME	36	* †	Anchor
McComis, Samuel Jay	SS	15½		Callettsburg, Kentucky
McConnell, Marian	LAS	59	* †	Indianapolis
McConnell, Helen Evelyn	LAS		* †	Champaign
McConnell, Marvin Greer	LAS	77	* †	Chicago
McCord, Ralph Nichols, A.B., 1910	SS	144		Bloomington
McCormack, Thomas Hume	ChE	71	* †	LaSalle
McCormick, Charles Parnell	Com	31	* †	Forrest
McCormick, Peter James	Arch		* †	Sterling
McCoy, Homer Walter	Agr (SS)	116½		Mt. Sterling
McCracken, Allen Reed	AE		* †	Urbana
McCray, Marian Verla	LAS		* †	Fulton
McCreary, William Curtis	ChE		* †	Chicago
McCreery, John Alexander	EE		* †	Benton
McCreery, Vashti	LAS		* †	Benton
McCrory, Florence Hazel	HSLAS	21	* †	Okmulgee, Oklahoma
McCullough, Helen E	HSLAS	106	* †	Urbana
McCullough, Mary Elizabeth	LAS	62	* †	Urbana
McCurdy, Lawrence Tatum	EE		* †	Glencoe
McDaniel, Homer Wesley	MdP	16		Mechanicsburg
McDaniel, Lillie	SS			Champaign
McDavid, Carroll Meredith	SS	5		Hillsboro
McDermott, Raymond Adam	SS	98		Batavia
McDonald, Edmund Urban	SS			Decatur
McDonald, Georgia Helen	HSLAS	56	* †	Lerna
McDonald, Harlan Fred	LAS		* †	Mattoon
McDonald, Joseph Nelson	LAS	76	* †	Chicago
McDonough, Thomas Joseph	Com	5½		Urbana
McDougal, Bertha Galie	LAS	31	* †	Petersburg
MacDougal, Helen Alice	LAS	32	* †	Cairo
McDowell, John Keeney	Agr		* †	Kankakee
McDowell, Merritt Dewey	LAS		* †	Centralia
MacDowell, Sidney Monroe	Com	96	* †	Addison, New York
McDowell, Thomas Scott	Agr		* †	Fairbury
McEldowney, Roy	ME	44	* †	Chicago Heights
McEldowney, William Earle	Com		* †	Chicago Heights
McElfresh, Arthur Edward	Com	37	* †	Urbana
McElhenny, Fred Wayne	ChE	33	* †	Vandalia
McElhiney, Helen Catherine	LAS		* †	Kenney
McElhiney, Ruth	LAS	63	* †	Kenney
McElroy, Mildred Cherington	Lib	45	* †	Delaware, Ohio
McEvers, Ernest	EE	71	* †	Montezuma
McEvoy, Thomas Treston	Agr	99	* †	Chicago
McFadden, Ivan Marion	LAS			Mt. Vernon, Indiana
McFarlane, Hugh	ME	37	* †	River Forest
McGehee, Wilbur	Agr	25	* †	Urbana
McGill, David Webster	EE	33	* †	Watseka
MacGillivray, Malcolm Edwards	LAS	54	* †	Urbana
McGinley, Susie Olive	SS			Hyllon, Texas
McGinnis, Charles Allen	SS	22%		Reevesville
McGinnis, Donald Castle	Com			Aurora
McGinnis, Helen Anastasia	LAS	60	* †	Chicago
McGinnis, Lester William	EE		* †	Kankakee
McGrath, Lawrence Philip	Com		* †	Woosung
McGrath, Wilson Thomas	Agr	75½	* †	Chicago

McGraw, Thomas Francis	Com	5	*	Champaign
McGregor, John Lancaster	ME	73	* †	Chicago
McGrew, Wallace Milton	AE	25	* †	Long Beach, California
McGuire, Vereta	SS			Champaign
McIlwain, Glen Burrows	CE	18	*	Galveston, Indiana
McIntire, Elliott Charles	Com	15½	* †	Aurora
McIntire, Leo Glenn	Com		*	Potomac
McIntire, Mary Minerva	SS		*	Urbana
McIntyre, Joseph Homer	Agr	22½	* †	Newman
McKay, Alexander	ME		* †	Almira, Washington
McKay, Ernest Gladstone	Agr	33	* †	Evanston
McKean, Leonard Albert	SS	69		Woodson
McKee, Mary Annette	LAS	59	* †	Kankakee
McKeever, Robert Emmett	EE	72	* †	Jackson, Nebraska
McKelvey, Mary Elizabeth	LAS		* †	Nashville
McKeon, Agnes Veronica	SS			Nauvoo
McKim, Lawrence John	LAS	32½	* †	St. Louis, Missouri
McKinley, Robert Prince	Com		* †	Mt. Carmel
McKinnell, Isabelle Georgia	SS	130		Beardstown
McKinney, Lela Fern	SS	7		Newton, Indiana
McKinney, Norman	Agr	102	* †	Chicago
McKittrick, Dorothy Joyce	Agr		*	Tower Hill
McKittrick, James Esten	Agr		*	Tower Hill
McKnight, Clark Wilson	Com	29	* †	Mason City
McKnight, Elda Marie	LAS		* †	Hiawatha, Kansas
McKnight, John Ira	Com	27		Chicago
McKown, Russell Leamer	Agr	106	* †	Davenport, Iowa
McLaren, Jessie	SS			Astoria
McLaughlin, Ernest	Com	22	* †	Shiloh, Pennsylvania
McLaughlin, George Southwell	EE	30½	* †	Pocostello, Idaho
McLaughlin, James Robert	EE	72		Aledo
McLaughlin, Walter Wylie	Agr	77½	†	Cartler
McLean, Alice Edna	SS			Jewell City, Kansas
McLean, Angus Donald	LAS		* †	New Albany, Indiana
McLee, Edward Brown	AE	66	* †	Rockford
McMahan, Elsie Margaret	Com (SS)	44	* †	Jerseyville
McMahon, Edward Laurence	EE		* †	Lacon
McMillan, Hermon George	Com		* †	Mt. Hermon, Massachusetts
McMillan, Lawrence Claude	EE	120	* †	Bridgeport
McMurray, Fannie Marie	LAS	32	* †	Divernon
McNair, Bernice Bowers	LAS	90	* †	Tolono
McNally, Teresa	SS	8		Pueblo, Colorado
McKnaughton, Clayton Archibald	Com	29½	* †	Urbana
McNeill, Angeline				
A.B., (Lake Forest Coll.) 1916	Lib			Galena
McNish, David Thornley	Agr	47	* †	North Crystal Lake
McNulta, Scott	Com	105	* †	Decatur
McNutt, Wilma Lea	LAS	32	* †	Lacon
McQuinn, Ralph Tolivar	LAS		* †	Salem
McSherry, Elizabeth Ann	SS	8		Carlinville
McWilliams, Marie Lindsey	Mus (SS)	89	* †	Urbana
Macauley, John Blair, Jr.	ME (SS)	57	* †	Chicago
Mach, George Robert	Agr	32		Brookfield
Machovec, Edward Paul	RME	84½	* †	Kansas City, Missouri
Mackie, Elton Thomas	Agr	87	* †	New Orleans
Mackin, Paul James	CE	72	* †	Omaha, Nebraska
Macomber, Frank Bartlett	Com	98	* †	Oak Park
Madden, Grace Erminie	LAS	96½	* †	Jacksonville
Madden, Katherine Josephine	SS	39½	* †	Jacksonville
Madison, Arthur Elmer	ME		* †	St. Louis, Missouri
Madison, Mary Adele	HSAgr (SS)	26	* †	Chicago
Magers, Elizabeth Julia	HSLAS	33	*	Marquette, Michigan
Magill, Lester K	SS	8		Palestine
Maguire, Mary Josephine	SS	17½		Allon
Maguire, William Chester, L.L.B., 1910	LAS		*	Urbana
Mah, Wing Ngai	SS	133		Berkeley, California
Mahannah, A Ernest	SS			Sedgwick, Kansas
Maher, Chauncey Carter	MdP	68	* †	Payson
Mahn, George Willis	AE	108	* †	Urbana
Main, George Chrysip	MdP	33	* †	Barry
Main, Howard H	CE	33	* †	Rockford
Main, Russell Wallace	Com		* †	Upper Sandusky, Ohio
Maitra, Krishna Mohan	RME	95	* †	Benares, U.P. India
Makutchan, Clyde	CE	100	* †	Urbana
Malapert, Ernest Louis	Com (SS)	43	* †	Osage City, Kansas
Malcolmson, David Krause	MinE		* †	Kansas City, Missouri
Mallary, Ernest Noel	SS	51½		New Orleans, Louisiana
Mallers, John Bernard III	ME	32	* †	Chicago
Mallett, Norman James	CerE	93	* †	Alloua, Pennsylvania
Mallory, Francis Bolton	LAS	33	* †	Batavia
Mallory, Richard Henderson	Agr	67	* †	Batavia
Mallstrom, Roe Eugene	Com	64	* †	Harvey
Malsbary, Grace Estella	HSLAS (SS)	60½	* †	Champaign
Malsbury, Marshall Raymond	Agr		* †	Viriden
Mandel, Samuel	Agr		*	Chicago

Mandeville, Merten Joseph	<i>Agr</i>	45	* †	Terre Haute, Indiana
Mandeville, William Howard	<i>Agr</i>	62	* †	Winnipeg
Mangan, Ralph Kenneth	<i>ME</i>	105	* †	Chicago
Manguson, Maude Beatrice	<i>Mus</i>	33	* †	Oso
Manley, John Charles	<i>EE</i>	30	* †	Chicago
Manley, Marion	<i>Arch</i>	122	* †	Junction City, Kansas
Manley, Myra Frances	<i>LAS</i>	60	* †	Champaign
Manley, Otis Rowe	<i>Com</i>	102	* †	Harvard
Manley, Verna Adeline	<i>Mus sp</i>	10	* †	Champaign
Mann, Edna Frances	<i>SS</i>	73½	* †	Oak Park
Mann, Marjorie Dorothea	<i>HSLAS</i>	97	* †	Elgin
Mann, Shirley	<i>HSLAS</i>		* †	Kankakee
Mann, William Alfred, Jr.	<i>LAS</i>		* †	Wilmette
Manny, Ida Lillian	<i>LAS</i>		* †	Portland, Oregon
Manny, Theodore Bergen	<i>Agr</i>	36	* †	Chicago
Manspeaker, Caroline Elizabeth	<i>LAS</i>		* †	Champaign
Mapel, Frances Pauline	<i>Agr</i>	97	* †	Fairbury
Marble, Mildred Ethel	<i>SS</i>	8	* †	Woodstock
Marbold, Pauline	<i>LAS</i>	104	* †	Greenview
Marcott, Margaret Anna	<i>LAS</i>	35	* †	Decatur
Markee, Charles Seguine	<i>Com</i>		* †	Neponset
Marks, Anna Edith	<i>LAS</i>	32	* †	Dixon
Marks, Maude Irene	<i>LAS</i>	67	* †	Plymouth, Indiana
Markson, Harry	<i>ME</i>	108	* †	Chicago
Markwardt, Henry William	<i>RCE</i>	99	* †	Elgin
Markwell, Olen Crow	<i>Agr</i>	64	* †	Stonington
Marlowe, Wilma McCabe	<i>LAS</i>	8	* †	Pontiac
Maroe, Luella May	<i>SS</i>	13½	* †	Rushville
Marquiss, Ralph Edwin	<i>Agr</i>	34	* †	Monticello
Marrock, Milton	<i>ChE</i>	66½	* †	Chicago
Marsh, Bessie Ellen	<i>HSAgr</i>		* †	Urbana
Marsh, Carrie Ethel	<i>LAS</i>	43½	* †	St. Joseph
Marshall, Elsmere John	<i>ChE</i>	22	* †	Washington, D. C.
Marshall, Glenn Wylie	<i>Com</i>	46	* †	Rulland
Marshall, Joseph Ellsworth	<i>Com</i>		* †	Gibson City
Marshall, Thomas Holland	<i>LAS</i>	64	* †	Fairfield
Marshall, William Vincent, Jr.	<i>Com</i>	30½	* †	Milford
Marsteller, Dudley Leonard	<i>Com</i>	36	* †	Roanoke, Virginia
Martell, Edmund Anthony	<i>EE</i>	71	* †	Murphysboro
Martens, Margaret Louise	<i>HSLAS</i>	65	* †	Anchor
Martin, Ada North	<i>Mus sp</i>		* †	Madison, Wisconsin
Martin, Albert Thaddeus	<i>Agr</i>	83	* †	Newton
Martin, Charles Blake	<i>Com</i>	33	* †	Mt. Carmel
Martin, Charles Clifford	<i>Com</i>		* †	Auburn
Martin, Daisy Moore	<i>LAS</i>	29	* †	Champaign
Martin, Emmet Giles	<i>Arch</i>	79	* †	Los Angeles, California
Martin, Frank Albert	<i>ChE (SS)</i>	65½	* †	Chicago
Martin, Leroy Hoener	<i>Agr</i>		* †	Chicago
Martin, Milford Maurice	<i>LAS</i>	19	* †	Murphysboro
Martin, William Hugh	<i>Law</i>	66	* †	Beech Ridge
Marvel, Edith Mae	<i>LAS</i>		* †	Normal
Marx, Arthur William Kuhs	<i>MSE</i>	79	* †	St. Louis, Missouri
Marx, George Bernard	<i>Com</i>	109	* †	Aurora
Mason, Jean Fraser	<i>LAS</i>	47	* †	LaSalle
Mason, Lee	<i>Agr</i>	35	* †	New Richmond, Indiana
Massey, Henry Laurens	<i>Com</i>	31	* †	Little Rock, Arkansas
Massock, Richard Gilbert	<i>LAS</i>	17	* †	Illioopolis
Masson, Lewis William	<i>Agr</i>	66	* †	Buffalo, New York
Matheny, Arthur Rolla	<i>SS</i>	8½	* †	Elizabethtown
Mather, Asa Frisbie	<i>Law</i>	66½	* †	Plainfield
Mathers, Fletcher Ward	<i>Agr sp</i>		* †	Chapin
Mathews, William Elmer	<i>Com</i>	54	* †	Potsdam, New York
Mathews, William Rankin	<i>Com</i>	113½	* †	Berkeley, California
Mathis, Oscar Jacob	<i>Arch</i>		* †	Morton
Matoba, George Hajime	<i>MinE</i>	80	* †	Japan
Matson, Harry Emil	<i>ME</i>	93	* †	Chicago
Mattheus, Albert Otto	<i>LAS</i>	70½	* †	Washington, D. C.
Matusezewicz, Veronica Catherine	<i>LAS</i>	60	* †	Minonk
Maung, Tharrawaddy Mauny	<i>ChE</i>		* †	Rangoon, Burma
Maurer, Charles Brand	<i>LAS</i>		* †	Champaign
Maurer, Frederick Gottlieb	<i>Com</i>		* †	Chicago
Maury, Daniel Evans	<i>Com</i>	68	* †	Rossville
Mautner, Erwin William	<i>ChE</i>	75	* †	Chicago
Mautz, William Plaford	<i>Agr</i>	28	* †	St. Elmo
Mavty, Maurine	<i>SS</i>	102	* †	Eureka
Maxfield, Elizabeth Allmond	<i>SS</i>		* †	Palmyra
Maxwell, Clyde Everett, Jr.	<i>Agr</i>	3	* †	Buffalo, New York
Maxwell, Leslie Blaine	<i>Com</i>	104	* †	Paris
Maxwell, Loyal C	<i>LAS</i>	102	* †	Flat Rock
Maxwell, McKinley Verna	<i>Agr</i>	32	* †	Flat Rock
Maxwell, Raymond Jones	<i>Com</i>	66	* †	Paris
May, Clifford Blaine	<i>Agr</i>	119	* †	Kirkland
Maynard, Elsdon Lyman	<i>Com</i>		* †	Chicago
Maynard, Wesley Kenneth	<i>LAS</i>	32	* †	Chicago
Mayo, Thomas Bolton	<i>LAS</i>	57	* †	Alton

Mead, Leo Shallenberger	Ccm	97	* †	Grand Island, Nebraska
Meade, Ehrma Pauline	LAS	7½	* †	Champaign
Meads, Aileen Mary	SS			Benton
Meals, Robert Woodruff	Agr	76	* †	Peoria
Means, Walker Wilson	CE	41	* †	Urbana
Medendorp, Titus Arend	SS	61	* †	Chicago
Meder, John O'Connor	Com		* †	Chicago
Mee, Julian Edward	Agr	15½	* †	Chicago
Meek, Frederick James	EE	28	* †	Marissa
Meek, Harold Tecumseh	LAS	75½	* †	Peoria
Meeks, Faye	Lib			Galesburg
Meers, Edith Gertrude	SS			Evanston
Mehaffey, Helen Irene	HSLAS	32	* †	Chicago
Meier, Harold Irving	LAS	35	* †	Marissa
Meisenhelder, W Benjamin	SS	93	* †	Palestine
Melangton, Philip Rolland	Com		* †	Chicago
Melin, Charles Raymond	Agr	65	* †	Urbana
Melin, Ralph Morton	LAS	29	* †	Chicago
Mendel, Ferdinand Albert	ME	31	*	Chicago
Mendenhall, Eugene Lincoln	SS			Toulon
Mendenhall, Ruth	SS	8		Ridgefarm
Mendsen, Harry Charles	CE		* †	Oak Park
Menefee, Percy Lee	LAS	5	* †	Portland, Oregon
Meneley, Ollive Myrtle, B.Mus., 1916	Mus		* †	Peoria
Menzel, Carl Alfred	ME	107	* †	Chicago
Merageas, George Peter	EE		* †	Greece
Mercer, Charles Franklin	CE	79	* †	Kansas City, Missouri
Mercer, Ralph Dilworth	Agr	69	* †	Vermont
Merchant, Althea Amaleyllis	LAS		* †	St. Louis, Missouri
Merner, Carl John	SS			Lakeside, Washington
Merrills, Marshall C, A.B., 1914	LAS			Belleville
Merrills, Virginia	LAS	44	* †	Belleville
Merryman, Mary Elinor	SS	15		Elizabethtown
Merryman, Mrs. William Walter	Agr sp		* †	Ponder, Texas
Merz, Robert Wham	CE		* †	Salem
Metcalf, Deane Shively	LAS		* †	Illkopolis
Metheny, Coligny Brainerd	SS	5		Beaver Falls, Pennsylvania
Metzler, John Newman	SS	17½		White Hall
Metzler, Ralph Oliver	Com (SS)	34	* †	Champaign
Mewhirter, Jannett Lou	HS Agr	65	* †	Yorkville
Meyer, Alfred Werner	Chem (SS)	106½	* †	Chicago
Meyer, Alvin Frederick	Agr (SS)	93½	* †	Deerfield
Meyer, Emma	SS	25½		Waterloo
Meyer, Ferdinand Antoine Ernst Henry	Com	19	* †	West Indies
Meyer, Frederick William, Jr.	LAS		* †	Kansas City, Missouri
Meyer, Harold Engles	Com		* †	Havana
Meyer, Howard Maurice	RCE	36	* †	Berlin, Ontario, Canada
Meyer, Husted McCullough	Com	25½	* †	Glencoe
Meyer, Irma Louise	LAS		* †	Kewanee
Meyer, Walter Rae	LAS			Springfield
Meyer, Wilbur Henry	Agr	32	*	Beardstown
Meyers, Fred William	Com			Wheaton
Meyers, Marguerite	HSLAS	33	* †	Belvidere
Meyers, Mildred Irene	LAS	64	* †	Pekin
Micenheimer, Russell	Agr		* †	Taylorville
Michael, Beatrice Anne	LAS		* †	Champaign
Michael, Richard William	Agr	18	* †	Champaign
Michael, William Manford	LAS		* †	Champaign
Michaels, Maurice Alpinier	Com		* †	Champaign
Michels, Eva Mabel	SS	15		Albion
Mickelson, Jens Christian	EE	83	* †	Chicago
Mickey, Florence	LAS		* †	Macomb
Middleton, Edith Anna	HSLAS	108	* †	Chicago
Middleton, George Eugene	Agr		* †	Chicago Heights
Middleton, Julian Gilbert	Arch	73	* †	Pomona, California
Midkiff, John Howard	Agr	108	* †	Stonington
Miles, Evelyn	LAS sp		* †	LaGrange
Miles, Margaret Leslie	LAS		* †	LaGrange
Miles, May	HS Agr	100	* †	Tologo, Colorado
Miles, Milton Godfrey	Com		* †	Des Moines, Iowa
Miles, Thomas Boyd	Agr	68	* †	Lewistown
Millar, Melvin Oscar	Agr	30	* †	Mattoon
Miller, Alta Marie	SS	8½		Nokomis
Miller, Anna May	LAS	32	* †	Champaign
Miller, Archie Roscoe	EE	71	* †	Mahomet
Miller, Bertie Ethel	SS	15½		Westfield
Miller, Carl Roscoe	LAS		* †	Mulberry Grove
Miller, Claire Evelyn	LAS	40	* †	Negaunee, Michigan
Miller, Dean Albert	CE	76	* †	Canton
Miller, Elmer Marshall	ME		* †	Chicago
Miller, Eva Grace	Mus sp		* †	Boulder, Colorado
Miller, Floyd Russell	SS	8		Decatur
Miller, Francis H	Com	69	* †	Chicago
Miller, Hazel Cloah	Mus (SS)	4	* †	Champaign
Miller, Joseph Gilman	Ccm	34½	* †	Glencoe

Miller, Katherine Fay	LAS		* †	Centralia
Miller, Katherine Marie	SS	5	* †	Hoopston
Miller, Kenneth William	EE	37	* †	Decatur
Miller, Lewis Elbert	ME		* †	Compton
Miller, Lloyd Burgart	AE		* †	Chicago
Miller, Margaret Josephine	SS	5		Moueaqua
Miller, Robert McClain	CE	107	* †	Cairo
Miller, Sanford Curtis	LAS	22	* †	Casey
Miller, Virginia Agnes	LAS	33	* †	Galva
Miller, Walter Porter	Agr	63	* †	Hanna City
Miller, Wilbur Glenn	AE		* †	Jerseyville
Milliken, Douglas	Agr		* †	Walnut
Milliken, Victor Carl	Com		* †	Chicago
Millon, Vance Spencer	MdP		†	New Orleans, Louisiana
Mills, Chester Whitaker	CE		* †	Chicago
Mills, Martha Mendenhall	LAS	15	* †	Marion, Indiana
Mills, Robert Rourke	CE		* †	Washington, D. C.
Mills, Thomas Emmet	SS			Beloit, Wisconsin
Millsom, Walter Clair	CerE	130	* †	Macomb
Miner, Helen Nellora	MdP	30	* †	Adair
Miner, William	SS	75½		Pana
Mink, Dwight L.	Com	92	* †	Galva
Minkema, William Herman	ME	107	* †	Chicago
Minks, Freda Heyer	Mus		* †	Dewey
Minnis, Lemuel Ernest, B.S., 1916	SS	142		Chicago
Mischler, Clara Helen	SS	13½		Springfield
Mischler, Lillian	SS	19½	* †	Springfield
Misener, Glenn Edgar	ME		* †	Berwyn
Mitchell, Donald Richards	Agr	66	* †	Chicago
Mitchell, Edna Pearl	LAS		* †	Hoopston
Mitchell, Forster Isaac	Com	21	* †	Havana
Mitchell, Florence Fernie	SS	38		Urbana
Mitchell, George William	MdP	101	* †	Marion
Mitchell, Herschel D.	SS	7		Hurdland, Missouri
Mitchell, Zulieka Pearl	Mus sp		* †	Mendon
Mittleman, Benjamin Eugene	CE	36	* †	Chicago
Mix, John Raymond	LAS	32	* †	Beardstown
Mizell, Ralph Eugene	Law sp		* †	Lake City, Florida
Moberley, Edwin Stuart	Agr	60½	* †	Tallulah, Louisiana
Mobley, Thomas Ray	SS		* †	Coushatta, Louisiana
Mock, Walter Paul	Com		* †	Kendallville
Moffatt, Alice Naomi	LAS	30	* †	Chicago
Moffett, Donald Romain	Law	86	* †	Paxton
Moffett, Warren	Agr		* †	Urbana
Mohr, Alba Agnes	SS	130		Beardstown
Mohr, Edward Emil	SS	39		Chicago
Mohr, Joseph Sutton	ME		* †	Chicago
Moller, Gertrude Mathilda	SS			Mt. Vernon
Molyneaux, Juniata Ounita	LAS	104	* †	Woodland
Moncrieff, James Weir	CerE	74	* †	Osgeo, Michigan
Money, Max James	Agr		* †	Newton
Mongreig, Louis Morgan	Agr	29	* †	Cicero
Monier, Mrs. Nellie May	SS			Annawan
Monninger, Werner Hugo	Com		* †	Indianapolis, Indiana
Monohon, Ila E.	HSLAS (SS)	71	* †	Urbana
Monohon, Irma Naomi	HSLAS		* †	Urbana
Monroe, George Stuart	Chem	111	* †	Hillsboro
Monteiro da Cunha, Humbert	CE		†	Sao Paulo, Brazil
Montgomery, Emily Caroline	SS	8½		Decatur
Montgomery, Verona Beatrice	SS	9		Decatur
Montgomery, Vincent Everett	SS			Sioux City, Iowa
Montgomery, Winifred	HSAgr		* †	Marseilles
Moo, Jen Yin	AE	32	* †	Honolulu
Moody, James Nathaniel	LAS sp		* †	Belize, British Honduras, C. A.
Mooney, John Francis	Agr sp		* †	Highland Park
Mooney, Paul Cullom	Com		* †	Philo
Moor, Hubert Watson	ChE	105	* †	Champaign
Moore, Albert Brophy	LAS	17	* †	Aurora
Moore, Allen Ray	LAS	72½	* †	Urbana
Moore, Allie Adelaide	LAS	21	* †	Urbana
Moore, Charles Bachman	LAS	35	* †	Knoxville, Tennessee
Moore, Edwin Cecil	AE	27	* †	Carbondale
Moore, Elva Marie	Mus		* †	Urbana
Moore, Eva Elenor	HSLAS	31	* †	Mattoon
Moore, Florence	LAS	35	* †	Allerton
Moore, George Wilkinson	Agr	34	* †	Macomb
Moore, Gladys Vivianne	LAS		* †	Champaign
Moore, Hiram Wodrich	SS			Chicago
Moore, Irene Holbrook	LAS	101	* †	Nashville
Moore, June W.	SS			Decatur
Moore, Mrs. Kate Eleanor	SS			Tuscola
Moore, Lois Romelia	SS			Gridley
Moore, Mabel Elizabeth	HSAgr	96	* †	Nashville
Moore, Miriam Ashworth	Com		* †	Danville
Moore, Othmar Lawson	LAS	23½	* †	Garrett, Indiana

Moore, Paul Robert	ME	36	* †	Carlville
Moore, Sara Elizabeth	LAS	66	* †	Danville
Moore, Vivian June	HSLAS	29	* †	Stockton
Moore, Walter Raymond	Agr		* †	Wataga
Moore, Wayne Kenneth	Agr	65½	* †	Chicago
Moore, William Abner, A.B., 1916	Law		* †	Urbana
Morales, Maximo Eladio	CE		* †	Lima, Peru
Moran, Frances Bernetia	LAS		* †	Belvidere
Moran, Katherine Mary	HS Agr (SS)	102	* †	Bartlesville, Oklahoma
Moran, Sarah Ellen	SS	6	* †	Bartlesville, Oklahoma
Mordue, Ralph	MinE	5	* †	Chicago
Morean, Clarence Wheeler	Agr	43½	* †	Des Moines, Iowa
Morehead, R Gould	Com	23½	* †	Monclair, New Jersey
Morey, Clara Adah	LAS (SS)	102	* †	Macomb
Morey, Drew	Com	30	* †	Manistee, Michigan
Morey, Philip Johnston	Agr	70	* †	Oak Park
Morgan, Dean Francis	EE	35½	* †	Kane
Morgan, May Merboth	LAS	98½	* †	Chicago
Morgan, Thomas Sherman	Law	31	* †	East St. Louis
Morgan, William Ray	CerE		* †	Macomb
Morita, Hanyemon	Com	68½	* †	Kisorazu Mochi, Japan
Morrill, Berton Charles	SS	3		Old Orchard, Maine
Morris, Bertha May	SS	20%		Greenview
Morris, Harold Harrison	Agr	66	* †	Clinton
Morris, Helen Elizabeth	HSLAS	45	* †	Webster Groves, Missouri
Morris, Nelson Marvin	MinE	110	* †	Harrisburg
Morrison, Carl Raymond	ME	77	* †	Columbus, Indiana
Morrison, Ivan G	Agr	102	* †	Fairbury
Morrison, Lethe Eleanora	HSLAS	48	* †	Waterloo
Morrison, Louraine Katherine	LAS		* †	Joliet
Morrison, Russell Howard	Com		* †	Rantoul
Morrison, William Raymond	LAS (SS)	178	* †	Waterloo
Morrissey, John O'Connell	Agr (SS)	34½	* †	Bloomington
Morrow, Charles Edward	ME		* †	Champaign
Morrow, Walter Shoop	Com		* †	Waukegan
Morsch, Elmer John	Agr	66	* †	Hinckley
Morse, Guy Edward	EE	44	* †	Kansas City, Missouri
Morse, Richard Irving	Com	20	* †	Olney
Morse, Robert Lay	ME	37	* †	Kewanee
Morton, Alfred Hammond	CE	36	* †	Chicago
Morton, Isadore	ChE	72	* †	Chicago
Moseley, Jason William	Arch	13	* †	Calhoun, Kentucky
Moser, Margaret	LAS	31	* †	Chicago
Mosgrove, Charles Adamson	Agr		* †	Monticello
Mosier, Henry David	Com		* †	Urbana
Moss, Alida Helen	LAS	66	* †	Urbana
Moss, Florence Louise	LAS	106	* †	Charles City, Iowa
Moss, John Redmon	Agr		* †	Paris
Moss, Ruth Alice	LAS (SS)	91½	* †	Mt. Vernon
Mote, Raymond Spencer	SS	6½		Piqua, Ohio
Mott, Florence McElroy	HS Agr		* †	St. Louis, Missouri
Motter, Archie Runkle	Com	60	* †	Browns Valley, Minnesota
Motter, Henry Edward	Com	34	* †	Lake Worth, Florida
Moulden, Clara Berenice	LAS	31	* †	Tuscola
Moulton, George Franklin	ChE		* †	Ottawa
Moyen, Carl Peter	ChE	119	* †	Chicago
Mroz, Rudolph John	MdP	28	* †	Chicago
Mueller, Alfred Martin	EE		* †	Wilmette
Mueller, Carl Oscar	AE (SS)	111½	* †	Chicago
Mueller, Gustave B	MdP sp		* †	Delmont, South Dakota
Mueller, Herbert Edward	AE	109	* †	Chicago
Mueller, John A	SS	6		Watertown, Wisconsin
Mueller, Richard Henry	Agr	33	* †	Chicago
Mueller, Walter Rudolph	AE	37	* †	Indianapolis, Indiana
Mueller, Walter Sack	LAS		* †	South Bend, Indiana
Muessel, Richard Adam	Agr	106	* †	South Bend, Indiana
Mugge, Lucile	LAS		* †	Harrisburg
Mulford, Edgar Theodore	CE (SS)	96½	* †	Mason City
Mulliken, Horace Watson	Agr	30	* †	Humbolt
Mullins, Edward Richard	AE (SS)	109½	* †	Champaign
Mullins, James Thomas	AE		* †	Champaign
Mullon, Vance Spencer	MdP		* †	New Orleans, Louisiana
Mumm, Walter John	Agr	32	* †	Sidney
Munce, Bernice Correll	LAS	15	* †	Illioopolis
Muncie, Wendell Stanley	LAS		* †	Danville
Munger, Winifred	LAS		* †	Chicago
Munns, Charles Willard	Com	70	* †	Peoria
Munsell, Amel Truman	Com		* †	Henryetta, Oklahoma
Munson, John Leonard	Agr (SS)	102	* †	Randolph
Munson, Morris George	Com sp	34	* †	Champaign
Muramoto, David Kitaro	EE		* †	Chicago
Murata, Motosaburo	EE	106½	* †	Japan
Murdock, Elizabeth Adams	LAS (SS)	97	* †	Champaign
Murison, Richard Vivian	AE	41	* †	Evanston
Murphy, Bert Kenneth	Agr		* †	Stockton

Murphy, George Thomas	<i>MdP</i>	* †	Chicago
Murphy, John Anson	<i>EE</i>	* †	St. Louis, Missouri
Murphy, Louise Phares	<i>LAS (SS)</i>	36	* † Western Springs
Murphy, Robert Emmet	<i>ME</i>	27½	* † Anderson, Indiana
Murray, Annie Louise	<i>Mus sp</i>		* † Champaign
Murray, Gerald Edson	<i>Com</i>	73	* † Rensselaer, Indiana
Murray, Grace Mildred	<i>LAS</i>	99	* † Champaign
Murray, Lenore Claire	<i>LAS</i>		* † Rantoul
Murray, Leonard Ely	<i>AE</i>	36	* † Springfield, Massachusetts
Murray, Noris Fay	<i>SS</i>		* † Mazon
Murray, Sprague Elmo	<i>Agr</i>	70	* † Mazon
Mustain, James Clifford	<i>ME</i>	71	* † Sciota
Myers, Delle Matilda	<i>Agr</i>	16	* † Sperling, Manitoba
Myers, Emma Frances	<i>LAS</i>	54	* † West Virginia
Myers, Gilbert Barlow	<i>EE</i>		* † Aurora
Myers, Harold Noyes	<i>Agr</i>		* † Mendon
Myers, Merton Jasper	<i>ME</i>	29½	* † Champaign
Myers, Morris Rosenthal	<i>Com</i>		* † Springfield
Myers, Walter Franklin	<i>Com</i>		* † Indianapolis, Indiana
Myers, William Henry	<i>MdP</i>		* † Coal Valley
Naden, Gladys LeOra	<i>LAS</i>	68	* † Newark
Nag, Surendra Chacedra	<i>MSE</i>	95½	* † Calcutta, India
Nagel, Charles August	<i>EE</i>	40	* † St. Louis, Missouri
Nakada, Kyoichi	<i>EE</i>	120	* † Okayama, Japan
Nakanishi, Shimaji	<i>EE</i>		* † Aichi-ken, Japan
Nakayama, Moki	<i>EE</i>	111	* † Kochi, Kochi-Ken, Japan
Nash, Vern Sharp	<i>Agr sp</i>		* † Joplin, Missouri
Neece, Orville Jesse	<i>Law</i>		* † Macomb
Needham, Catherine	<i>LAS</i>	67	* † Urbana
Needham, Marguerita	<i>LAS</i>		* † Urbana
Needler, Julien Hequembourg	<i>ME</i>	115	* † Chicago
Neely, Bertha	<i>SS</i>	64	* † Marion
Neely, John Childs	<i>Arch</i>	62	* † Topeka, Kansas
Neff, Harold Alpha	<i>LAS (SS)</i>	31	* † Rochelle
Neiburg, Simon Jacob	<i>EE</i>	63	* † St. Albans, Vermont
Neifing, Hal Francis	<i>SS</i>	5	* † Pontiac
Neil, Mark Crawford	<i>LAS</i>	31	* † Oak Park
Nelson, Arthur Blis	<i>ME</i>		* † Evanston
Nelson, Clarence Theodore	<i>SS</i>		* † Bertrand, Nebraska
Nelson, Elmer Laurence	<i>AE</i>	54	* † Chicago
Nelson, Jesse Ward	<i>Agr</i>	103½	* † Vermont
Nelson, John	<i>AE</i>	17	* † LaGrange
Nelson, Marguerite Richmond	<i>LAS sp</i>		* † Urbana
Nelson, Milton Nels	<i>SS</i>		* † Chicago
Nelson, Paul Scofield	<i>ME</i>	34	* † Chicago
Nelson, Raymond Edward	<i>LAS</i>		* † Chicago
Nelson, Rudolph Stokes	<i>LAS</i>		* † Rockford
Nelson, Severina Elain	<i>LAS</i>	70	* † Oak Park
Nelson, Sidney William	<i>Com</i>	½	* † Winnetka
Nelson, Walter Stephen	<i>LAS</i>	89	* † Chicago
Nelson, William Oscar	<i>ME</i>	110	* † Peoria
Nesbit, Maude Elizabeth, A.B. (Butler College) 1915	<i>Lib</i>		* † Indianapolis, Indiana
Nesbitt, Carl Wesley	<i>Chem</i>	75	* † Macomb
Nesheff, George	<i>ME</i>	56	* † Bulgaria
Netcott, Roland Earl	<i>AE</i>	85	* † Independence, Iowa
Netz, Ralph Morlan	<i>Com</i>	70	* † Albion, Indiana
Neuber, Anna Louise	<i>LAS</i>	16	* † Litchfield
Neville, Olive Myrtle	<i>HSLAS</i>	64	* † Kewanee
Newburn, Alice Rachel	<i>HSAgr</i>	25½	* † Hoopston
Newburn, Gene Edgar	<i>Agr</i>	33	* † Hoopston
Newburn, Harold James	<i>Com</i>	51	* † Hoopston
Newburn, Iva Florence	<i>HSLAS</i>	68	* † Urbana
Newcomb, Edwin Eldwood	<i>Arch</i>	64	* † Burlington, Kansas
Newcomb, Walter Haines	<i>Chem</i>	91	* † Fisher
Newcomer, Charles Graham	<i>SS</i>	7	* † Columbia, Missouri
Newell, Constance	<i>LAS</i>		* † Urbana
Newell, Josephine	<i>HSLAS</i>	36	* † Urbana
Newland, George Milton	<i>Arch</i>		* † Cedar Rapids, Iowa
Newlin, Harold Vance	<i>LAS</i>	103	* † Robinson
Newlin, John Ewart	<i>LAS</i>		* † Robinson
Newlin, Ralph Thomas	<i>Law</i>	92	* † Robinson
Newlin, Walter Allen	<i>Agr</i>	73	* † Annapolis
Newlin, Willard Bogue	<i>LAS</i>	62	* † Indianapolis, Indiana
Newsom, Noble	<i>SS</i>	1½	* † Mt. Carmel
Newton, Doris Charlotte	<i>HSAgr</i>	33	* † Glen Ellyn
Newton, Frank Wilson	<i>Agr</i>		* † Urbana
Newton, Helen Charlotte	<i>Mus</i>	36	* † Fairfield
Newton, Kelvin	<i>SS</i>	5	* † Weir, Kansas
Newton, Robert Keith	<i>EE</i>	69½	* † Jerseyville
Nichol, Edward Sterling	<i>LAS</i>	106	* † Columbus, Ohio
Nichol, George William	<i>Com</i>	100	* † Anderson, Indiana
Nichol, Ross	<i>SS</i>	8	* † Barry
Nichols, Charles Henry	<i>Agr</i>	36	* † Hebron
Nichols, Charles William	<i>MdP</i>		* † Fairfield

Nichols, Clayton Schirm	Arch		* † Omaha, Nebraska
Nichols, Genevieve Beeler	HSLAS		* † Danville
Nichols, Herbert Luthy	Chem	21	* † Washington, D.C.
Nichols, Hilton C	Agr	28	* † Moline
Nichols, Josephine Marie	LAS	100	* † Dixon
Nichols, Roscoe Christian	LAS		* † Fairfield
Nichols, Sidney Warren	Com		* † Des Moines, Iowa
Nickell, Harry Brock	Com sp		* † Fairfield
Nickels, Arnold Carl	LAS	34	* † Watertown, Wisconsin
Nickolls, Cecil Richard	SS	130½	* † Stark
Niebergall, Philip Alfred	Com	33	* † New Orleans, Louisiana
Niehaus, John Mark, Jr.	LAS		* † Peoria
Nieman, Earl	EE		* † Winchester
Nightingale, Eugene Richard	EE	50	* † Champaign
Nixon, Eugene White	SS		* † Marissa
Nixson, Walter Henry	CE		* † Beardstown
Noble, Merle Emmett	LAS	30	* † Crawfordsville, Indiana
Noel, Elsie Mae	LAS	36	* † Saunemin
Nogle, Claude Emil	Agr sp	17	* † Champaign
Nolan, John Timothy	CE	78	* † Gilbert, Minnesota
Nolen, Harry Fern	ME		* † Danville
Noone, Byron Mortime	MdP	59	* † Haworth, New Jersey
Norlin, Fred Christian	CE	126	* † Chicago
Norling, Albert Emanuel	AE	30	* † Aurora
Norman, Louise Elizabeth	HSLAS (SS)		* † Champaign
Norman, Milton Eugene	CE	36	* † Chicago
Norman, Willard Alfred	Agr	18	* † Chicago
Norris, Dwight Reed	CE	107	* † Newman
North, Alma Marie	Com		* † Rockford
North, Page Lane	Agr	55	* † Chicago
North, Paul Gordon	Agr		* † El Paso
Norton, Arty Everett	Agr	29	* † Alto Pass
Norton, Eathon Arlo	Agr	33	* † Bloomington
Norviel, Herald Bernard	Med	66	* † Urbana
Nott, Edson Lowell	Agr	60	* † Byron
Novak, Joseph Frank	CE		* † Chicago
Nowlen, Gladys Louise	SS	48	* † Morrison
Noyes, William Albert, Jr.	LAS	66	* † Urbana
Nugent, Julia Anne	SS	8	* † Buffalo
Null, Miriam Ellen	HSLAS	32	* † Colchester
Nusbaum, Emil Justice	EE	36	* † Streator
Nutt, Bertram Vera	ME		* † Moline
Nuttal, John Tilden	SS	37	* † Flat Rock
Nye, Anita	LAS		* † Loda
Oakes, Ella Baxter	HSAgr	74	* † Laura
Oakes, James Lowell	LAS	½	* † Champaign
Obermueller, Aurelia	SS	7	* † Alton
Oberne, George Stuble	RME	61	* † Chicago
Oblander, Helen Elizabeth	HSLAS	25	* † Bushnell
Ocheltree, Maurice Webster	LAS (SS)	53	* † Homer
Ochoa, Alfonso Vizcaino	Arch	66½	* † Guadalupe, Mexico
Ochoa, Jorge Vizcaino	EE	17	* † Chicago
Ochs, Chester Adam	Com	95	* † Chicago
O'Connor, Helen Crawford	SS	6	* † Belvidere
O'Connor, Martin Earl	Law		* † Kewanee
Odell, Arthur Allen, A.B., 1915	LAS		* † Lakeside, California
Odell, Laura A	SS	16	* † Oakland
Odenkirk, Zellie Coy	EE	24½	* † Auburn, Indiana
Ogden, Lynden	SS		* † Lexington
Ogg, John Hurley	ME	73	* † Buffalo, New York
Ohlman, Ruth Ingeborg	LAS (SS)	30	* † Harvey
Ohlum, Dwight Broadnax	RCE	102	* † Indianapolis, Indiana
O'Keefe, Walter Joseph	LAS		* † Plymouth, Indiana
Olander, Ernest Allen	CE	139½	* † Topeka, Kansas
Olazagsti, Tomas	ChE (SS)	6	* † Porto Rico
Olds, George Samuel	Agr		* † LaGrange, Indiana
Olesen, Aina Carrie	HSLAS	31	* † Highland Park
Olesen, Harold Loeffel	EE	71	* † Highland Park
Olin, Irwin Blaine	Com (SS)	90	* † Evanston
Oliveras, Ovidio	SS	114½	* † Chicago
Olmstead, Roscoe Thomas	Com	66	* † Callin
Olsen, Arthur Alexis	Agr	113½	* † Newark
Olsen, Arthur Luther	LAS	61½	* † Chicago
Olson, Milton Ola	SS	16	* † Monticello
Olson, Oscar Helmer	ME		* † Rockford
Olson, Robert George	ME		* † Sterling
Omansky, Samuel	Arch		* † Chicago
Omeara, Allan Richard	Com	106	* † Chicago
O'Neill, Richard Read	CE	30	* † Washington, Indiana
O'Neill, William George	AE	36½	* † Faribault, Minnesota
O'Neill, Lucy Leona	SS		* † Kankakee
Onstad, Ralph Mangus	Arch		* † Green Bay, Wisconsin
Oppfelt, Glenn Alfred	CerE	1	* † Aurora
Orland, Fred William	Agr	33	* † Murphysboro
Orr, Harold James	LAS		* † Texarkana, Texas

Orvis, Caroline A.B. (Yankton Coll.) 1910	Lib		* † Yankton, South Dakota
Osborn, Deane Harold	Com	31	* † Urbana
Osborne, Clinton Milan	SS	7½	* † Rockford
Osburn, Mabel Thelma	HSAgr		* † Robinson
Osgood, Sewall Mason	Com sp		* † Chicago
Ostrom, Hallas Willard	ChE	29	* † Chicago
Otani, Kura	LAS		* † Berkeley, California
Ott, John Ekern	ME	109½	* † Chicago
Ott, Percy Wright	MSE	115½	* † Mt. Hermon, Louisiana
Otto, Gordon	Agr	102½	* † Chicago
Ousley, Glen Charles	Agr	30	* † Paris
Outland, Robert Marcus	Agr		* † Indianapolis, Indiana
Overbee, William Bryan	EE	36	* † Fairfield
Overend, Harrison George	Arch	125½	* † Edelstein
Overstreet, Ethel	LAS		* † Orlando, Florida
Overton, Ralph Marion	ME	109	* † Winchester
Owen, Harold Patterson	CE (SS)	74	* † Chicago
Owen, Hayward	Com		* † Villa Grove
Owen, Jane	LAS	30	* † McHenry
Owen, Stewart Douglas	LAS		* † Louisville, Kentucky
Oxman, John Murrell	Agr	23	* † Lake Bluff
Pack, Mary	HSLAS	66	* † River Forest
Paddock, Priscilla Barton	LAS		* † Kankakee
Paddock, Richard	MdP (SS)	40	* † Terre Haute, Indiana
Page, Harold Meredith	LAS (SS)	93	* † Keota, Iowa
Page, Ralph Augustus	Agr sp		* † McLeansboro
Pagin, Bernard Lewis	ME		* † LaGrange
Pahl, Margaret Christina	HSLAS		* † Clinton, Iowa
Painter, George Bandy	LAS	6	* † Carrollton
Painter, Merle Leo	Com		* † Carrollton
Paisley, Ada Mae, A.B., 1911	SS	133	* † Champaign
Paisley, Sela Isabel	Mus	122	* † Urbana
Paisley, Stella Elizabeth	LAS		* † Urbana
Palfrey, John Robert	Agr	129½	* † Urbana
Palmer, Anna Shattuck, M.L., 1895	Mus		* † Urbana
Palmer, Arthur Bowen	CE	61	* † Mt. Pleasant, Iowa
Palmer, Charles Shattuck	Chem	104½	* † Urbana
Palmer, Robert Carrell	AE	33	* † Des Moines, Iowa
Pancoast, Donald A	ME	65	* † Champaign
Pappmeier, Louis Stahl	CE	37	* † Litchfield
Park, Martha Ann	HSLAS (SS)	26	* † St. Louis, Missouri
Parker, Charles Grosvenor	Arch	80½	* † Chicago
Parker, Frances Miriam	LAS		* † Mattoon
Parker, Joel Weaver	CE	74	* † Mattoon
Parkes, Charles Holcombe	LAS (SS)	28	* † Chicago
Parkhurst, Marie Lanius	Mus sp		* † York, Pennsylvania
Parks, Catherine Elizabeth	LAS	96	* † DuQuoin
Parks, Frank Austin	Com	69	* † Urbana
Parks, Helen Gwendith	Mus		* † Farmington
Parks, Ralph Milton	LAS	69	* † Urbana
Parmely, Maurice Edmund	Agr	33	* † Urbana
Parr, Arthur Eldon	Agr	73½	* † Newman
Parr, Barney Felix	SS	6	* † Union Star, Kentucky
Parr, Harold Lucian	CerE (SS)	87	* † Urbana
Parry, John Jay, Ph.D.	LAS		* † Urbana
Pastel, Alfred Robert	Arch	81	* † Chicago
Patchill, Glenn Tilford	Com	98	* † Coming, New York
Patterson, Joseph Julian	AE	127	* † Danville
Patterson, Katharine	SS	6	* † Atlanta
Patterson, Nellie Rand	HSLAS	116	* † Chicago
Patterson, Ralph Lewis	Agr		* † Eureka
Pattison, Benjamin Purdy	SS		* † Car, Michigan
Pattiz, Simon	REE		* † East St. Louis
Patton, Frederick William	Agr	92	* † Montclair, New Jersey
Patton, John V	LAS	95½	* † Aberdeen, Mississippi
Patton, Lee Moyer	Agr	32	* † Bridgeport
Patton, Richard Chalmers	LAS	67	* † Atlanta
Paul, Berenice Marie	LAS	49	* † Chicago
Paul, Frank Martyn	ME (SS)	60	* † Kewanee
Paul, Lauretta Grace	SS	8½	* † Alton
Paul, Mary Josephine	LAS	15½	* † Jerseyville
Paulson, Enoch Oliver	Agr sp		* † Princeton
Pavey, Charles Allen	Com	40	* † Columbus, Ohio
Pawson, John Thomas	Com	31	* † Danville
Payne, Hilderth Lacue	LAS		* † Lexington
Payton, Paul Leason	Com		* † Taylorville
Peadro, Benjamin Franklin	Agr sp		* † Urbana
Peadro, Eva McDonald	Mus		* † Urbana
Peale, Margaret	HSLAS	63	* † Belvidere
Pearce, Marvin James	ChE		* † Johnson City,
Pearce, Walter Harold	Com		* † Rushville, Indiana
Pearse, William Payson	ME		* † Pontiac
Pearson, Francis H	ME	72	* † Hinsdale
Pearson, Homer Arnold	EE	103	* † Thorntown, Indiana
Pearson, Robert Miller	ChE	21	* † Thorntown, Indiana

Pease, David Ward	ME		* † Chicago
Pecchia, Victor Anthony	CE	132½	* † Chicago
Pechman, Henry Charles	AE	23	* † Webster Groves, Missouri
Peck, Frederick Albert, Jr.	REE	77	* † Chicago
Peck, Irving Kellogg	MinE	43	* † Aurora
Peck, Roy Lee	CE	130	* † Oak Park
Peddicord, Clotine Sellards.	HSLAS	17	* † Champaign
Pedler, Russell Henry	ME	115	* † Chicago
Peel, Jesse Aldred	Agr sp		* † Taylorville
Peirson, Mary Lucile	HSLAS	65	* † Murphysboro
Pell, Hazel Marie	HSLAS (SS)	69	* † Urbana
Peltz, Ralph Cheney	LAS		* † Clinton
Pelzer, Harry Louis	LAS (SS)	98	* † Champaign
Pendarvis, Harry Reed	LAS	153	* † Chicago
Pendergast, Emly Marie	LAS		* † Champaign
Pendergast, Mary Honora	LAS	60	* † Champaign
Penderagst, Nellie Marie	Mus		* † Champaign
Penhallow, Lambert Benjamin	ME	73	* † Chicago
Penn, Josephine Emily	SS	13½	* † Springfield
Penny, James Leonard	Agr	34	* † Evanston
Penny, Maud DeMaris	LAS		* † Champaign
Perbix, Harold Witte	Agr	60	* † Markham
Percival, Joseph W.	Agr	53	* † Champaign
Percival, Lilley Ruth	HSAgr	63	* † Urbana
Percival, Stella Rebecca	Mus (SS)	110½	* † Champaign
Percival, William Frank	Com	25	* † Champaign
Percy, George Stanford	ME	33	* † Chicago
Perkins, Frances Janet	LAS	82½	* † Laurcl, Mississippi
Perkins, Wayne Emerson	LAS		* † Mendota
Perlman, Samuel Charles	LAS	25	* † Chicago
Perry, Raymond Andress	ME sp		* † Delaware, New Jersey
Perry, Robert Ashman	ME	77	* † Urbana
Perry, Sherman	SS	8	* † Mier, Indiana
Peterman, George Raymond	Com		* † Kankakee
Peters, Helen Augusta	LAS		* † Portland, Oregon
Petersen, Frank Lindell	Com		* † Oak Park
Petersen, Marvic Hecht	Agr (SS)	59½	* † Chicago
Peterson, Chester Almon	Agr	104	* † Galesburg
Peterson, Franklin Merle	Com	31	* † Brownstown
Peterson, Fred Milton	Com		* † North Crystal Lake
Peterson, Irving Leonard	Agr	95	* † DeKalb
Peterson, James Andrew	LAS	33	* † Chicago
Peterson, Joel Asbury	LAS	61	* † Urbana
Peterson, Lawrence Eugene	AE	35	* † Grand Rapids, Michigan
Peterson, Lester Carlisle	ChE		* † Paxton
Peterson, Mabel Elizabeth	LAS	30	* † Maywood
Peterson, Norman Hill	Agr		* † Chicago
Peterson, Reuben Walter	Agr	101	* † Chicago
Peterson, Richard Alvin	CE		* † Chicago
Peterson, Sidney LeRoy	LAS		* † Chicago
Peterson, Silas Carlisle	Agr	42	* † Herscher
Peterson, Timothy Edwin	Agr	94	* † Mesa, Arizona
Petes, Edyth Marion	LAS	32	* † McHenry
Petes, Germer	LAS	34	* † McHenry
Pethybridge, Frank Howard	Agr	98	* † Chicago
Petter, Stanley Dubois	ME	70	* † Paducah, Kentucky
Petty, Lawrence Otis	Agr	32	* † Sumner
Petty, Manley Ross	Agr	95	* † Sumner
Petty, Raymond Bradshaw	Com sp		* † Peru, Indiana
Petzing, Edwin Rudolph	EE	74	* † Shumway
Peyton, Eugene Harvey	LAS		* † Homer
Pfeffer, Louis Herman	Agr	129	* † Lebanon
Pfeffer, Mary Elizabeth	Mus		* † Champaign
Pfeiffer, Conrad Louis	EE	112	* † Chicago
Pfeiffer, Rudolf Salisbury	ME	112½	* † Peoria
Pfuderer, William Frederick	LAS		* † Berwyn
Phalen, Robert William	Com	65	* † Evanston
Phenicie, Hubert Ellsworth	Agr		* † Manchester, Iowa
Philbrick, Lois	LAS	98	* † Champaign
Phillips, Alice Emma	HSLAS	54	* † Champaign
Phillips, Andrew Sheldon	Arch		* † Sullivan
Phillips, Bernice Irene	HSLAS	85	* † Bloomington
Phillips, Eugene Martin, A.B., 1904	Agr		* † Lena
Phillips, Lemuel	LAS (SS)	30	* † Mt. Vernon, Indiana
Phillips, Minnie Alice	LAS	98	* † Sullivan
Phillips, Ruth	HSLAS	81	* † E. Cleveland, Ohio
Phillis, Louis Irving	ME	73	* † Chicago
Pickard, Dorothy Everett	LAS	60	* † Maywood
Pickard, Marion Frances	LAS	33	* † Maywood
Pickard, Violet Hunt	LAS		* † Maywood
Picker, Edna Odessa	HSLAS	32	* † Assumption
Pickett, Arthur William	AE	78	* † Chicago
Pieper, Arnold Christian	EE	36	* † Chatham
Pieper, John	SS		* † Granite City
Pierce, Benjamin Elmer	CE	112	* † Genoa

Pierce, Maurice	Com	33	† Gifford
Pierce, Theodore	Agr	*	† Watsela
Piercion, Charles Howard	CE	51½	* † Zion City
Piercion, Frank Harlan	MSE	96½	* † Fairfield, Iowa
Piercion, Raymond Henry	ChE	36	* † Chatsworth
Pike, Albert M	Com	*	* † Aurora
Pike, Donald Esterly	ChE	*	† Canton, Ohio
Pilchard, Edwin Ivan	Agr	93	* † Mansfield
Pinheiro, Ruy	REE	*	* † Brazil
Pinkley, George Davison	LAS	*	* † Gibson City
Pinnell, Alma Jean	HSAgr	*	* † Kansas
Pinto, Deoclecis de Oliveira	CE	*	* † Brazil
Pipher, Willard Albertus	LAS	*	* † Chicago
Pires, Amy Mirth	SS	8½	* † Jacksonville
Pittard, Le Ware	HSAgr	*	* † Winterville, Georgia
Place, Dorothy Crouse	LAS	*	* † Freeport
Platt, Leslie Paine	Com	*	* † Dubuque, Iowa
Plessinger, Emerson	EE	*	* † Anderson, Indiana
Plummer, Allison Oliver	SS	8½	* † St. Joseph
Plymale, Betha	SS	95½	* † Dumleith, West Virginia
Podlesak, Harry George	ME	36	* † Chicago
Poehlmann, Earl Franklin	Agr	37	* † Morton Grove
Poehlmann, Roland Morton	Agr	5	* † Morton Grove
Poehlmann, Walter Gustave	Agr	34	* † Morton Grove
Pohlmann, Edward Charles	ME	65	* † Chicago
Polk, Arthur Eugene	CerE	42	* † Champaign
Polk, Wesley William	ME	95½	* † Champaign
Polkowski, Anna	LAS (SS)	39	* † Champaign
Pollock, Leone Ruth	SS	69	* † Polo
Pool, Ernest Howard	Law	169	* † Ottawa
Poor, Leonard Sproule	LAS (SS)	99	* † Streator
Pope, Walter Scott	SS	17	* † Berwyn
Poppove, Racho Petroff	EE	87	* † Selo Musina, Bulgaria
Porter, Frederick Hale	LAS	*	* † Burlington, Iowa
Porter, Harry Hubert	MinE	102	* † Gerlan
Porter, Howard Hamilton	Agr	*	* † Hume
Porter, Margaret Lois	LAS	3	* † Gladstone
Porter, Nelson	Com	*	* † Hume
Porter, Richard Leonard Andrew	LAS	*	* † Terre Haute, Indiana
Porterfield, Hazel Ethel	LAS	*	* † Urbana
Postel, Urban Stuart	Com	100	* † Mascoutah
Postle, George Richardson	Arch	35	* † Elgin
Postlewaite, Harriet Leotine	HSAgr (SS)	86½	* † Urbana
Poston, William Irvin	Com	*	* † Crawfordsville, Indiana
Potter, Beulah Adelia	HSLAS	*	* † Indianapolis, Indiana
Potter, Glenn Edward	EE	108	* † Springfield
Potter, Merwin William	ChE	*	* † La Fox
Potter, Phil Harry	Agr	88	* † Chicago
Potts, Albert Leroy	LAS sp	*	* † Honey Bend
Poulsen, Frank Edward	LAS	*	* † Chicago
Powell, Albert Lyle	ME	69	* † Chicago
Powell, Esther Acelia	LAS	*	* † Freeport
Powell, Henry Albert	Agr (SS) sp	22½	* † Birmingham, Alabama
Powell, John Henderson, Jr.	LAS	*	* † Kansas City, Missouri
Powell, William Jenifer	EE	*	* † Chicago
Powers, J Orin	SS	134	* † Chebanse
Powers, John Howard	Com	99	* † Decatur
Powers, Paul Haller	CE	*	* † Decatur
Powers, Ray Austin	Agr	99	* † Joliet
Prante, Beulah Wise	LAS	33	* † Quincy
Prather, Edward Merle	Agr	*	* † Rossville
Prather, William Henry	Agr	*	* † Rossville
Prebble, Robert Curtis	ME	38	* † Oak Park
Preece, Rae	LAS	*	* † Quincy
Prehm, Edwin	AE	*	* † Chicago
Presson, Lola Iris	HSAgr (SS)	116½	* † Champaign
Pribble, Vernon Hole	Com	*	* † Ridgefarm
Price, Arthur Lowell	Agr	63½	* † Decatur
Price, Marion Erenay	LAS	*	* † Oak Park
Price, Melville Halsey	Chem (SS)	99	* † Chicago
Price, Miles Oscar	Lib	21	* † Plymouth, Indiana
Price, Raymond Lester	EE	35	* † Rockford
Prince, Ben James	Agr	67	* † Lansing
Pritchard, Elliott Alfred, Jr.	Agr (SS)	31	* † Aurora
Probst, Edward Eugene	Arch	*	* † Chicago
Probst, John Stanley	Agr	*	* † Elkhart, Indiana
Proelss, Otto	ChE	34	* † Moundsville, West Virginia
Proetz, Charles Henry	ME	42	* † St. Louis, Missouri
Prosser, John Aubrey	EE	16	* † Evanston
Pruitt, Francis James	LAS	*	* † Chicago
Przyppszuy, Casimir	LAS	13	* † Chicago
Pugh, Ada Roberta, A.B., 1915	Agr	183½	* † Champaign
Pugh, Cloyd	LAS	*	* † Humrich
Pulcipher, K DeWitt	Com	65	* † Centralia
Pulliam, Vernon Donald	CE	*	* † Fithian

Pulsipher, Betty Marie	HS Agr	60	* †	Elmwood
Purcell, Bryant Franklin	Agr	59½	* †	Polo
Purcell, William Thomas	AE	112½	* †	Chicago
Purnell, Joseph Robert	Agr		* †	Oak Park
Purnell, William Frank	AE	68	* †	Muncie
Pursell, James Roland	EE	74	* †	Chicago
Pursell, Waldo Emerson	Com		* †	Champaign
Putnam, Mary Heiskell	HSLAS (SS)	20	* †	Urbana
Pyron, John Elder	ChE	126	* †	Chattanooga, Tennessee
Quaid, Lloyd James	ME		* †	Downs
Quandt, Coramae	HS Agr (SS)	94	* †	Urbana
Quick, Harry	CE	107	* †	Tiskilwa
Quinn, Florence Katherine	Mus	68	* †	LaFayette
Raaberg, Ralph Skancke	AE	102	* †	Chicago
Racheff, Ivan	LAS	95½	* †	Lorech, Bulgaria
Radeke, Carl Henry	ChE		* †	Buckley
Rafferty, Raymond C	Agr	56	* †	Canion
Rafferty, Richard Alphonsus	Agr		* †	Chicago
Rafinski, Clement Joseph	Com	68½	* †	Thomaston, Connecticut
Rahn, Gertrude Augusta	HS Agr		* †	Thornton
Rahn, Lester Addison	Agr	65½	* †	Lanark
Rahn, Rudolph	ME	75	* †	Thornton
Raibourn, Paul Herbert	EE	114	* †	Eldorado
Raines, Lester Courtney	LAS (SS)	79	* †	Urbana
Rainwater, Russell	LAS		* †	New Canton
Raithel, Kathryn Rose	LAS	69	* †	Chicago
Ralston, Harriet Lucile	Lib		* †	Pocahontas, Iowa
A.B. (Iowa Univ.) 1916				
Ralston, John Caldwell, Jr.	Agr		* †	Caledonia
Ramey, Frank Willard	Arch	63	* †	Champaign
Ramirez, William	ME	29	* †	Cabo Rojo, Porto Rico
Ramm, Walter Ferdinand	Chem		* †	Chicago
Ramsay, Allan Patton	SS		* †	Vincennes, Indiana
Ramsay, Crawford John	LAS (SS)	92	* †	Olney
Ramser, John Hubert	ME	107	* †	Alma
Ramsey, Frank William	Agr		* †	Washburn
Rand, Frank LeRoy	SS		* †	North Adams, Massachusetts
Randall, Claude Hale	ME		* †	Bowen
Randall, Earl Everett	MEP	25½	* †	Chicago
Randall, Frank John	Agr	62	* †	Aurora
Randall, Grace Louise	LAS	95	* †	Rogers Park, Chicago
Randolph, Cora Creager	LAS	95½	* †	Kansas City, Missouri
Randolph, Glenn Lake F	EE	59	* †	Trilla
Randolph, John Wiloughey	Agr		* †	Onarga
Randolph, Merle Seigel	Agr		* †	Covington, Indiana
Rankin, Luro Jane	LAS	62	* †	Payson
Rankin, Ralph Edward	ME		* †	Rio
Ranney, George Henry	Com	62	* †	Chicago
Ranney, Joel Alden	Agr	90	* †	Cazenovia
Ranney, Maude Esteline	SS	155	* †	Little York
Ranney, Nathan Charles	Agr	68	* †	Little York
Ranney, Willard Parminter	Agr	99	* †	Cazenovia
Ransford, Maurice Reuben	Arch	35	* †	Los Angeles, California
Rantz, Francis Roger	Agr	64	* †	Waverly
Rao, Dharwan Vijayahao	Agr	67	* †	Hospet, India
Raphaelson, Sampson Miles	LAS	93	* †	Chicago
Rapp, John Holly	Law	28	* †	Fairfield
Rasmussen, Harold Eijner	Com	34	* †	Chicago
Rastede, Fred	Agr		* †	Morrison
Rathbun, Harry Rowland	Agr	32	* †	Glen Ellyn
Rathbun, Hubert Honens	Agr	95	* †	Spring Valley
Rathsack, Mary	LAS	115	* †	Greenview
Raup, Philip Ward	Com		* †	Monroe Center
Rauschkolb, Erma Marie	LAS (SS)	7½	* †	Belleville
Ray, Earl Stanley	ME		* †	Cuba
Ray, William Floyd	Arch		* †	Urbana
Rayburn, Lee Paul, Jr.	LAS		* †	Champaign
Rea, Doren Eugene	Com		* †	Avon
Read, Everett Roland Eustice	Agr		* †	Galena
Read, William Gordon	Com	71	* †	Bloomington
Reader, Emma Grace	LAS	76	* †	Centralia
Reagan, Maurice Edwin	EE	107½	* †	Canton
Reagel, Fred Virgin	Chem	89	* †	Waverly
Reardon, Victor Ambrose	Agr		* †	Joliet
Record, Ella Marion	LAS	50	* †	Cambridge
Records, Mary Melvina	HSLAS (SS)	62	* †	Peoria
Reding, Ralph Spears	Agr	52	* †	Petersburg
Reece, Cornelius Heermans	LAS		* †	Evansston
Reece, Robert Howell	ME	42½	* †	Evansston
Reed, Chester Otis, B.S., 1911	SS		* †	Pittsford, New York
Reed, Cordelia	LAS		* †	Covington, Indiana
Reed, Frederick James	Agr (SS)	57	* †	Volant, Pennsylvania
Reed, Hazel Viola	HSLAS (SS)	98	* †	Urbana
Reed, Leo Bracy	Com	50	* †	Eldorado
Reed, Lula Alice	SS	6		Benton

Reed, Maurice Johnson	MinE	111	* †	Emerson
Reed, Robert Wallace	Agr	28	* †	Warsaw
Reed, Roy Ogle	Agr		* †	Washington, D. C.
Reed, Sina M.	LAS		* †	Danville
Reeder, John Corwin	LAS (SS)	108½	* †	Arcola
Rees, Charles Thomas	Com		* †	Bradford
Rees, Myron Lester	Agr	19	* †	Rochester, Indiana
Reese, Herbert Stockton	SS	6½	* †	Randolph, Nebraska
Reese, Leal Wiley, A.B., 1916	LAW		* †	Urbana
Reese, Lucille Nancy	HSAgr (SS)	67½	* †	Urbana
Reese, Raymond Leslie	SS	98½	* †	Jonesboro, Arkansas
Reess, Stella Georgia	HSLAS (SS)	46	* †	St. Louis, Missouri
Reeves, Dorothy Ellen	Mus		* †	Champaign
Reeves, Hester Ruth	HSAgr		* †	Champaign
Rehm, George Edward, Jr.	Agr	44½	* †	Chicago
Rehnquist, Alf Christian	CE	37	* †	Chicago
Rehnquist, Arvid Lawrence	CE		* †	Chicago
Rehnquist, Ernest Ferdinand	CE	107	* †	Chicago
Reichelderfer, Harry	EE (SS)	72	* †	Peoria
Reichle, Richard Wendell	Com sp		* †	Beason
Reichman, Elfrida	SS	8½	* †	Chicago
Reichman, Ella Esther	SS	8½	* †	Chicago
Reid, Emily Cleda	LAS	22	* †	Albion
Reid, George Hostes	Agr	66	* †	Mt. Vernon
Reid, Harold Speer	Agr	62	* †	St. Paul, Minnesota
Reid, James Thomas	Com		* †	Sullivan, Indiana
Reid, Stewart Franklin	Com	31	* †	Springfield
Reilly, Walter Sheridan	Arch		* †	Danville
Reineck, Robert Walter	Chem	2	* †	Chicago
Reinel, Bert Edward	LAS	75	* †	Streator
Reinhard, Otto Andrew George	MdP		* †	Cullom
Reinhart, Oliver John	Agr sp		* †	Alhambra
Reinke, Karl Louis	EE		* †	Chicago
Reinsch, Bernhard Paul	Arch		* †	Muscatine, Iowa
Reinwald, Frederick John	EE	37	* †	Carmi
Reisner, Anna Catherine	HSLAS		* †	Sterling
Reisz, Albert	AE	67	* †	Chicago
Remley, Walter Brown	Agr	35	* †	Waynetown, Indiana
Renner, Enos Henry, Jr.	Agr	48	* †	Urbana
Renning, Albert Gordon	Com	16	* †	Highland Park
Reno, Guy Benjamin, A.B., 1915	LAW	167	* †	Browning
Rentchler, Marion David	Agr	9	* †	Mt. Vernon
Replinger, John Edward	AE	35	* †	Chicago
Retherford, Miriam Browning	HSLAS	53	* †	Rushville, Indiana
Reveal, Ivan Lindsey	ChE	45	* †	Hoopeston
Reynolds, Harry Allen	ME		* †	Chicago
Rhoads, Marie Corzine	LAS (SS)	64	* †	Champaign
Rhodes, Golda May	HSLAS (SS)	31	* †	Lovington
Rhodes, Opal Terrissa	HSLAS	32	* †	Lovington
Rhue, Lena Cecelia	Com	39	* †	Champaign
Rhue, Perry Marion	Com (SS)	71	* †	Champaign
Rice, Katherine Grace	LAS	86	* †	Philo
Rice, Nathan Lyman	Agr	31	* †	Philo
Rice, Warner Grenelle	Chem		* †	Aurora
Richards, Gladys Ersel	Mus	22	* †	Champaign
Richards, John Ott	Agr	27½	* †	Silvis
Richards, Lester Amos	LAS		* †	Mt. Vernon
Richards, Milton Clyde	ME		* †	Cleveland, Ohio
Richards, Olive Arey	HSAgr	60	* †	St. Louis, Missouri
Richardson, Dana Thurston	Com		* †	Maywood
Richardson, Francis Edward	Agr	56	* †	Chicago Heights
Richardson, Harvey Russell	EE	108	* †	Morristown, New York
Richardson, Juanita, B.S., 1913	SS	134	* †	Danville
Richardson, Wilder Avery	Agr		* †	Compton
Richart, Berta Estella	HSLAS	41	* †	Urbana
Richart, Blanche Belle	LAS	81	* †	Champaign
Richmond, Jean Elnora	HSLAS	47½	* †	Waterman
Richmond, Noble Leslie	Com	26	* †	Champaign
Richmond, Warren McLellan	Agr	104	* †	Geneseo
Richter, Gertrude Katherine	Com	64½	* †	Davenport, Iowa
Rick, George D.	Agr		* †	Morrison
Ricker, Ethel, B.S., 1904	Arch		* †	Urbana
Ricks, Juanita May	Mus	16	* †	Clinton
Rideout, George Rawlwich	Com	24	* †	Freeport
Rider, Dean Loller	MdP		* †	Bushnell
Rider, G Wellington	EE		* †	Elgin
Rider, George Clinton, Jr.	Agr		* †	Pekin
Riedle, William Reid	LAS		* †	Chicago
Riegel, Bertha Galatia	Agr sp	39	* †	Galatia
Riess, Carl John	MdP		* †	Pontiac
Rigg, Joseph Harold	Agr		* †	Golden Gate
Riggs, Lee Roy	Com		* †	Champaign
Rike, Ronald Van Atla	Agr	35	* †	LeRoy
Rinaker, Clarissa, Ph.D., 1913	LAS		* †	Urbana
Rinaker, Janet	SS	130		Carlinville

Riraker, John Irving	Agr (SS)	68	*	Springfield
Rindesbacher, Emma Beatrice	SS	8		Stockton
Ringeisen, Hazel Novella	LAS	33	* †	Toledo, Ohio
Rippee, Ollie Brown	EE		* †	Mt. Pleasant, Tennessee
Ripple, Ruth Anna	LAS	56	*	Chicago
Rising, John David	Com	31	* †	Champaign
Risley, Ralph Edwin	ME		* †	Decatur
Risley, Walter John Jr.	LAS	35	* †	Decatur
Risser, Constance Katherine	LAS	33	* †	Kankakee
Risser, Walter Scott	EE	86	* †	Paris
Rissinger, Arthur Joe	MdP	33	* †	Mason City
Ritcher, George Clyde	SS	7		Troy
Ritcher, Henry Adelbert	SS	32		Troy
Ritt, Walter William Henry	CE	44	* †	Crystal Lake
Rittenhouse, Donald Arter	EE	5	* †	Cairo
Ritter, John Gilman	AE	117	* †	Chicago
Ritter, Walter Theobald	REE	83	* †	Chicago
Roach, Doris Eleanor	SS	90		Decatur
Roach, Emmet John	ME		* †	Chatsworth
Roane, Theodore	Chem	90	* †	Chicago
Robbins, Jessie Severns	Mus	28	* †	Mendon, Ohio
Roberson, William Dwight	MdP		* †	Mattoon
Roberson, Mary	SS			Villa Ridge
Roberts, Claude Morrill	Com	68½	* †	Decatur
Roberts, Elmer Clifford	Arch	36	* †	Oak Park
Roberts, Malcolm Douglas	Agr	98		Flushing, New York
Roberts, Lois Madeline	SS	110½		Decatur
Roberts, Mary Lovisa	LAS (SS)	8	* †	Homer
Robertson, Arthur Beekman	Agr	67	* †	Petersburg
Robertson, Charles Venable	Agr	95	* †	Carlinville
Robertson, Edna Maude	LAS		* †	Champaign
Robertson, Miriam Selina	HSAgr	95	* †	Champaign
Robinson, Ethelyn Clyde	HSLAS	69	* †	LaSalle
Robinson, Florence Elinor, A.B., 1913	LAS		* †	Urbana
Robinson, Harold Lynn	LAS	31	* †	Urbana
Robinson, Robert Clay	Agr		* †	Kansas
Robinson, Hugh Dean	LAS	66	* †	Harvey
Robinson, Mary Katherine	LAS		* †	Bloomington
Robinson, Myra	HSLAS	24	* †	Kansas
Robinson, Robert Johnson	LAS (SS)	35½	* †	Gilman
Robinson, Ruth Love	SS	132		Edwardsville
Robinson, Warren Isaac	Agr	102	* †	LaSalle
Robison, Edna Lena	SS	9½		Pittsfield
Rock, Lewis Burnham	Agr		* †	Chicago
Rockey, Paul Thomas	AE	103½	* †	Freeport
Rodgers, Clark Lemmen	Com		* †	Allon
Rodrigues, Antonio	CE	92½	* †	Cuba
Roe, Edar Bertram	Agr	66	* †	Nevada, Missouri
Roesner, Hedwig Elizabeth	Mus (SS)	153	* †	Moline
Rogers, Elsie Marie	HSLAS	97	* †	Havana
Rogers, George	SS			Pana
Rogers, Henry Sheldon	Agr	102	* †	Marengo
Rogers, Roger Monroe	Agr sp		* †	Detroit, Michigan
Rogers, Verne E	SS			
Rohe, Walter Henry	Com		* †	Kansas City, Kansas
Rohrbough, Elsie Gwendolyn	LAS	31	* †	Kinmundy
Rohrer, Frank Philip	LAS	121		Gilman
Rollins, Neta	LAS	58	* †	Paxton
Romano, Michael Angelo	LAS		* †	Chicago
Romansoff, John	Agr sp		*	Rozhdestveno, Russia
Rombauer, Sophie Marie	Agr		*	St. Louis, Missouri
Romciser, Alvin	Com	52	* †	Belleville
Romero, Newman	LAS	85	* †	Valparaiso, Chile
Romig, Jesse Arnold	EE	56	* †	Champaign
Romig, Lieuelen Dewight	EE		* †	Champaign
Rompel, Ruth Edith	LAS	64	* †	Champaign
Ronalds, Francis Spring	LAS	5	* †	Carmi
Roos, Edwin George	Com	102	* †	St. Louis, Missouri
Root, Hollis Reed	Com	32	* †	Chicago
Root, Russell William	LAS		* †	Morris
Rooth, James	CE	48		Joy
Rorig, Ruth Elizabeth	HSAgr		* †	Elgin
Roscoe, George Howard	Agr	111	* †	Blue Island
Rose, Ethel Maye	HSLAS	60	* †	Bement
Rose, Mansfield Philip	EE	64	* †	Chicago
Rose, William H., Jr.	SS			Chester, Massachusetts
Rosecrans, Crandall Zachariah	ME	35	* †	Champaign
Rosen, John	Agr		* †	Chicago
Rosenberg, Emanuel	LAS		* †	Decatur
Rosenberg, Herbert Bernard	SS	123		Granite City
Rosenberg, William Harry	MdP		* †	Chicago
Rosenberry, Ethel	SS	6		Phoenix, Arizona
Rosenblum, Bernice	Mus		* †	Waukegan
Rosenstone, Edwin Arthur	LAS		* †	Cambridge
Ross, Harry Albert	Agr	101	* †	Champaign

Ross, Nelda Glendora	HSAgr	68	* †	Easton
Ross, Walter Leland	LAS	5	* †	Ft. Worth, Texas
Rost, Theodore August	MdP	30	* †	Petersburg
Rotramel, Everett Roy	Agr	29	* †	Benton
Rouch, Samuel Earl	SS			Kewanna, Indiana
Rourke, Margaret Elizabeth	LAS (SS)	27½	* †	Springfield
Rowan, Henry Edward	LAS sp		* †	Champaign
Rowe, Charles Barr	Arch	99	* †	Chicago
Rowe, Jack LeRoy	EE (SS)	59	* †	Chicago
Rowe, James	ME	107	* †	Three Rivers, Michigan
Rowland, Mrs. Floyd E	SS			Lock, Washington
Roy, Frank Winston	EE	19½	*	Danville
Ruedi, Charles Henry	Com (SS)	95	* †	St. Louis, Missouri
Ruedy, Robert John	REE		* †	Mendota
Ruffner, Rachel	HSAgr	63	* †	Marshall
Ruhnka, Roy	Arch	25	* †	Pierce, Nebraska
Rumely, Mark Anthony	ME		* †	Sycamore
Rummel, Evelyn Agnes	LAS		* †	Emden
Rumsey, Lois	LAS	76	* †	Muscatine, Iowa
Rundle, W B	Agr	104	* †	Clinton
Rundles, Charles Morton	SS	130		Huntertown, Indiana
Rundquist, Elmer Theo	Agr	69	* †	Harvey
Runneberg, Elton Cromwell	Agr	104	* †	Crosby, Texas
Runyan, Walter LeRoy, D.B. (Univ. of Chicago) 1907	Lib		*	Chicago
Ruppel, Paul Earl	ME	10½	*	Beardstown
Rush, Charles Wesley	SS	5½		Greensboro, Alabama
Rush, Clara Lillian	Mus		†	Pittsfield
Rush, Paul White	MdP	72	* †	Pittsfield
Russell, Charles Chauncey	ChE	5	* †	Joliet
Russell, Charles Clifton	Agr	33	* †	Urbana
Russell, Edwin Avery	CE	73	* †	Buffalo, New York
Russell, Frances Harriett	HSAgr (SS)	29	* †	South Pekin
Russell, Mary Dunlap	HSLAS		* †	St. Louis, Missouri
Russell, Virginia Elizabeth	LAS		* †	Champaign
Russett, Jasper P	Arch	133		Cedar Rapids, Iowa
Russinoff, Evan Paul	LAS	36		Tirnovo, Bulgaria
Russo, William Joseph	Agr	27	* †	Chicago
Rust, Louis Ernest	Agr		* †	Sibley
Rusy, Ben Franklin	Agr (SS)	115½	*	Chicago
Rutherford, Elizabeth Jane	SS	7		Oakland
Rutherford, Florence	LAS (SS)	99	* †	Newman
Rutledge, James Hirst	MdP		* †	Champaign
Rutledge, Margaret Emma	HSLAS		* †	Champaign
Ryan, Benjamin Harold	Com	26	* †	East Moline
Ryan, Charlotte, A.B. (Univ. of Texas) 1910	Lib		* †	San Antonio, Texas
Ryan, Howard Robert	EE	34	* †	Elgin
Ryan, Walter Richard	LAS	68		St. Louis, Missouri
Ryder, Bruce Ivan	MdP	32	* †	Bradford
Ryder, Earl	EE	10	* †	Springfield
Ryder, Horace Alonzo Lewis	EE	64	* †	Baker, Oregon
Sabin, Albert Robbins	Agr	15	* †	Chicago
Sabin, Mrs. Helen Mackey	HSAgr	65½	* †	Fredonia, New York
Sackett, Fred Ward	LAS	33	* †	Danville
Sacksteder, Frederick Herman	ChE		* †	Downers Grove
Sacksteder, Stephen Staley	Agr sp		* †	Downers Grove
Saelhof, Clarence Charles	MdP	35		Austin, Chicago
Saffell, Gladys Deforest	LAS	118	* †	Urbana
Sagar, Anna Ellen	LAS	102	* †	Belvidere
Sahud, William Harry	LAS		* †	Chicago
Sailer, Frank	Agr	68	* †	Chicago
St. Cardosi, Chris Victor	LAS		* †	Canlon
Salisbury, Meta Emogene	HSLAS (SS)	83	* †	Urbana
Salladin, George Edward, Jr.	Com	70	* †	Milford, Nebraska
Saltiel, Thomas Paine	Agr		* †	Chicago
Samelow, Louis	Law		* †	Chicago
Samford, Dellos Frank	SS	2		Fairfield
Sampaio, Leite Jose de	RCE		* †	Brazil
Samuels, Theresa Minna	LAS	63	* †	Chicago
Sandehn, Casper William	LAS	16½	* †	Rockford
Sanders, Ella Jane Pickles	LAS (SS)		* †	Anna
Sanders, Paul Thomas	Agr		* †	Champaign
Sanderson, Arthur Kingston	ME	37	* †	LaGrange
Sandler, Edward Adolf	LAS	30½	* †	Cairo
Sands, Lewis Morgan	Com		* †	Tolono
Sandvold, Conrad Elmer	Com	77	* †	Moorhead, Iowa
Sanford, Juanita Lorraine	LAS	100½	* †	Lebanon, Indiana
Sanford, Pearl Clayton	SS	6½		Shelby, Michigan
Santiago, Alfredo Viola	AE	100½	* †	Philippine Islands
Sargent, Agnes Ruth, A.B. (Univ. of California) 1906	Lib		* †	Whittier, California
Sargent, Charlene Marie	LAS		* †	Indianapolis, Indiana
Sargent, Francelia Plumly	Com	66	* †	Indianapolis, Indiana
Sargent, Frank Akin	Agr	34	* †	Ferris

Sarven, James David	MaP		* † St. Petersburg, Florida
Sato, Kennosuke	LAS		* † Nagoya, Japan
Satterfield, Helen Charlotte	LAS	58	* † Chicago
Saucr, Earl Joseph	MaP		* † Collinsville
Savage, William Chauncey	Agr	108	* † Frankfort, Michigan
Savord, Katherine Ruth	LAS		* † Sandusky, Ohio
Sawyer, Gertrude	Agr	69	* † Nibbome, Missouri
Sawyer, Isaac Cornelius	ChE	35	* † Springfield
Sawyer, Ralph Warren	Agr		* † Chicago
Saxton, Charles Van Keuren	AE	94	* † Pueblo, Colorado
Sayles, Frank Wells	Com		* † Glencoe
Saylor, Harold Ellsworth	Com		* † Des Moines, Iowa
Scanlan, Chester Jerome	ME	36	* † Bloomington
Schaede, Emma Adeline	Mus		* † Champaign
Schaefer, Abby Conway	HSLAS	37½	* † Richmond, Indiana
Schaefer, Jesse Ovid	SS	8	* † Paris
Schaumburg, Edward George, Jr.	Arch	118	* † St. Louis, Missouri
Schance, Ellen Eliza	SS		* † Paris
Schecht, Max	LAS	109	* † Brooklyn, New York
Scheffer, Wilhelmina	LAS	66	* † Atwood
Scheib, Donald Drake	Com		* † Urbana
Schenck, Ralph Edwin	Arch	76	* † Urbana
Schenck, Vernon Gates	Com	36	* † Jamestown, New York
Schernek, William John	LAS	48½	* † West Salem
Schiffin, Arthur Kressler	ME	66	* † Chicago
Schissler, Paul John, Jr.	SS		* † Hastings, Nebraska
Schlacks, Henry Valentine	EE (SS)	38	* † Chicago
Schlader, Henry Mathias	ChE	23½	* † Oak Park
Schlager, Marie Phillis	HSLAS		* † Elgin
Schleifer, Ferdinand John	Agr	100	* † Nashville
Schlesselman, Louise Ida	LAS		* † Lafayette, Indiana
Schloss, Harold Julian	Agr (SS)	30½	* † Terre Haute, Indiana
Schloss, Philip	SS	66	* † Terre Haute, Indiana
Schmalmaack, Charles Louis	EE		* † St. Louis, Missouri
Schmeltzer, Chauncey Brockway	CE	52	* † Manteno
Schmidt, Francis Albert	SS	1½	* † Arkansas City, Kansas
Schmidt, Richard Wagner	CE	35	* † Chicago
Schmidt, Walter Eugene Starr	Agr		* † Chicago
Schmitt, Arthur Earl	EE		* † Mt. Vernon
Schmitz, Herbert John	AE		* † Chicago
Schneider, Arthur Charles	CE	120	* † Galena
Schneider, Delmont Joseph	ME	38	* † St. Louis, Missouri
Schneider, Hardy Richard	ChE		* † East St. Louis
Schneider, Nora Wilhelmine	LAS	33	* † Urbana
Schneider, William Henry	Chem (SS)	64	* † Springfield
Schnellbacher, Jacob Paul	Com	34	* † Peoria
Schoch, Arthur John	EE	101	* † Tower Hill
Schock, William Veirling	Agr		* † Albion
Schocker, Elsie Julia	SS		* † Rock Island
Schoembs, Frank Alvin	Law	90	* † Cairo
Schoene, Herbert Frank	AE	96	* † Chicago
Schoonmaker, Charles Coleman	Com		* † Genoa
Schott, John Theodore	EE		* † Quincy
Schrader, Carrie Mabel	LAS		* † Bridgeport
Schrader, Dayton Oscar	LAS		* † Bridgeport
Schrader, Frederick Ambrose	LAS (SS)		* † Murphysboro
Schreiber, Louis Henry	Agr	68	* † Chicago
Schreiner, Warren William	Agr	25	* † River Forest
Schrenk, Walter Theodore	SS	8	* † Golconda
Schriner, Emma Ellen	SS	33	* † Peoria
Schroeder, Arnold Henry	Com	29½	* † Freeholdville, Indiana
Schroeder, Ralph Minson	CE	1	* † Warrensburg
Schroeder, Robert Henry	MaP	32	* † Nashville
Schroepfel, Harold Henry	EE	108	* † Mt. Carroll
Schroyer, Malcolm Edward	LAS (SS)	37½	* † Pontiac
Schuck, Arthur Frederick	Com	27½	* † Washington, Indiana
Schuh, Charles Redden	Com		* † Cairo
Schuler, Dement	Com	57	* † Dixon
Schuler, Kate	SS	22½	* † Mound City
Schultz, Clarence John	Com		* † Chicago
Schultz, Clarence William	EE	36	* † Harvard
Schultz, Louis William	LAS	29	* † Oak Park
Schulz, Frank J.	Com	68	* † Elmwood
Schulz, John A.	Chem (SS)	105½	* † Elmwood
Schumacher, Dixie Howard	HSLAS	102	* † Rockport, Indiana
Schumacher, Howard James	MaP	30	* † Highland Park
Schutt, Marjorie Laura	Agr		* † Chicago
Schwagmeyer, Ella	LAS (SS)	77	* † Quincy
Schwagmeyer, Emil Henry	Com	33	* † Quincy
Schwarz, John Earl	AE		* † Storm Lake, Iowa
Schweitzer, Benjamin Cecil	Com	68	* † Mt. Carmel
Schwing, Roy Rene	LAS	33	* † Peoria
Scoby, Will Joseph	Agr		* † Okmulgee, Oklahoma
Scott, Donald Headley	CE		* † Pawnee
Scott, Ella Grace	SS	8	* † Newton

Scott, Esther Selb	LAS	33	* † Venice
Scott, George Eugene	AE	59	* † Chicago
Scott, Gerald Russell	Agr	101½	* † Chicago
Scott, Gladys Russell	HSLAS	32	* † Xenia, Ohio
Scott, Lincoln Bain	Agr sp		* † Boston, Massachusetts
Scott, Lois Marie	LAS	34	* † Mattoon
Scott, Mary Stanhope	SS	7	* † Lampasas, Texas
Scott, Ralph A	Agr	100	* † Rock Falls
Scott, Robert Ashmore	LAS	102	* † Paris
Scott, Roy Sunderland	SS		* † Spearfish, South Dakota
Scott, Sidney Glenn	Com	27	* † Champaign
Scoville, John Allen	CE	64	* † Peoria
Scudamore, Robert	LAS	28	* † Flora
Searcy, Lynn Dooley	LAS		* † Carlinville
Searle, Truman Gorton	LAS	60	* † Geneseo
Searles, Donald Kenneth	LAS	71	* † LaGrange
Seavey, Harry Richmond	EE	72	* † Momence
Sedgley, Arols	Arch		* † Omaha, Nebraska
Seehausen Paul	LAS (SS)	52	* † Chebanse
Seeley, Bessie Louise	SS	23½	* † Joliet
Segur, John Bartlett	Chem (SS)	33	* † Watseka
Seibert, George Clement	Arch		* † Allamont
Seibert, Harold Stein	EE		* † Mt. Carmel
Seidel, Dorothy Katherine	LAS		* † Kansas City, Missouri
Seidel, Richard Theodore	Agr		* † Chicago
Siglinger, Frank Vernon	LAS		* † Sterling
Seiler, Erna	LAS	16	* † Woodstock
Sellmer, Helen Emma	LAS		* † Moline
Sellner, Edna	LAS	95	* † Quincy
Selzer, Louis Jacob	Arch	73	* † Evansville, Indiana
Sense, Mattie Alice	HSAgr	103	* † Watseka
Senseman, Harold Leonard	AE (SS)	93	* † Monmouth
Seubold, Heinrich John	Agr	56	* † Huntingburg, Indiana
Severance, Lyle Elwood, B.S., 1916	SS	137	* † Lansing, Michigan
Sewell, Augusta Fern	Mus		* † Monticello
Sexauer, James Monroe	Agr	61	* † Belvidere
Seymour, Arthur Romeyn	Mus sp		* † Urbana
Seyester, Lois Ferne	LAS	35	* † Champaign
Shackelford, Claude Leroy	Com		* † Carrollton
Shaddle, Lee Norton	Agr		* † Area
Shaddock, Rolla Edward	Agr	48½	* † Macon
Shade, Claude Cloide	Agr	30	* † Montpelier, Indiana
Shade, Dorothy	LAS		* † Lexington
Shade, Mary Marguerite	LAS		* † Montpelier, Indiana
Shaffer, Susan Kurzenknabe	LAS	28	* † Chicago
Shaffer, Wilhelmine	HSAgr	32	* † Chicago
Shaffner, Clara Irene	LAS	28	* † St. Louis, Missouri
Shale, Martin Asa	SS	14	* † Watertown, South Dakota
Shapiro, Ben	Arch		* † St. Louis, Missouri
Shapland, Fern Elizabeth Page	HSLAS	64	* † Saunemin
Shapley, Ralph	Agr (SS)	59	* † Rockford
Sharer, Donald David	MSE	92½	* † Decatur
Sharp, Bertha Lee, A.B., 1914	Mus		* † Urbana
Sharp, Ethel Ruth	Com	12½	* † Urbana
Sharp, James C	Agr (SS)	102	* † Champaign
Sharp, Mildred	LAS		* † Mattoon
Shaver, Elizabeth Fritzalen	SS	13	* † Gibson City
Shaw, Delia	HSLAS	32	* † Rockport
Shaw, Frederick Wood	CE	108	* † Chicago
Shaw, Hazel Elizabeth	LAS	53	* † Rockford
Shaw, Horace Bateman	Agr		* † Montgomery, Alabama
Shaw, Mary Louise	HSLAS	26	* † Harrisburg
Shaw, Wilfred	Agr	29	* † Marshall
Shay, Mary Lucille	LAS	99	* † Decatur
Shea, Earl Clifford	Com	26	* † Lead, South Dakota
Shcafe, Martha Lucile	HSLAS		* † Ottumwa, Iowa
Sheaff, Robert Phineas	Agr	68	* † Holcomb
Sheasby, Victor	LAS	9	* † Chicago
Shedden, Forest Robert	EE	29	* † Elgin
Shedden, James William	CE	65	* † Chicago
Sheeham, Edna Hespera	HSLAS	62	* † St. Joseph, Michigan
Sheets, Alexander Mardis	Arch		* † Princeton, Missouri
Sheets, Haven McKendree	Agr	98	* † Georgetown
Sheffer, William Heber	Agr	62	* † Auburn, Indiana
Sheldon, Beulah Mulford	LAS	35	* † Chicago
Sheldon, Nelson Edward	AE	72	* † Rockford
Shellabarger, William Lincoln, Jr.	Com	48	* † Decatur
Shellhorn, Boyd Stanley	LAS	30	* † Mt. Carmel
Shellman, Elmer William	Agr		* † Gibson City
Shelton, Pearl Fairy	Agr		* † Terre Haute, Indiana
Shelton, Wilma Loy	Lib	44	* † Terre Haute, Indiana
Shepard, Lola Adeline, A.B. (Lake Forest College) 1902	Lib		* † Wilmette
Sheppard, Charles Howard	CF	109	* † Edwardsville
Sheppard, Leila Margaret	Mus		* † Edwardsville

Sheridan, Mary Beall	LAS	98	* †	Sullivan, Indiana
Sherman, Caroline Elizabeth	LAS	30	* †	Vienna, Virginia
Sherman, Leta Elmina	LAS	33	* †	Casey
Sherrick, John Chauncey	Arch	173	* †	Moumouth
Shewmon, Joe Allen	Agr	64½	* †	Oak Park
Shields, Richard Michael	EE		* †	Chicago
Shimer, Earl Lester	LAS	36	* †	Palestine
Shing, Chi Ting	RCE	93½	* †	China
Shipley, Burton Howard	SS	6½		College Park, Maryland
Shipley, Paul Donald	Agr	20	*	Petersburg
Shively, Jean	HS LAS (SS)	47	* †	Champaign
Shlandeman, Harry Ricker	CE	34	* †	Pasadena, California
Shomaker, Richard William	Agr	76	* †	Murphysboro
Shonkwiler, Francis Lucian	ME	72	* †	Monticello
Short, Paul Fletcher	MdP		* †	White Hall
Shott, Ruth Elma	HSLAS	103	* †	Urbana
Shrimplin, Pearl Marie	LAS		* †	Sheldon
Shriver, Helen Elizabeth	HS Agr	101	* †	Champaign
Shroyer, David Mirven	Agr	59	* †	Urbana
Shrum, Edmund Jerome	Agr		* †	Valley City, North Dakota
Shryock, Lyle William	Agr	24	* †	Canton
Shup, Laurence Edgar	LAS	66	* †	Newton
Shuping, Dan	CE	32	* †	Hillsboro
Shy, Frank Spain	Com	71	* †	Olney
Sideman, Benjamin	CE	32	* †	Chicago
Siecke, Kurt Hugo	ME	52½	* †	Freeport
Siegmund, Humphreys Oliver	EE	115	* †	St. Louis, Missouri
Siegrist, Damon Carl	Agr	59	* †	San Jose
Siemens, Anne Blanchard	LAS	62	* †	Kansas City, Missouri
Sigfridson, Ebba Beatrice	HS Agr	26	* †	Geneva
Signor, Nellie Marie	Lib	57	* †	Urbana
Sills, Archie Lee	AE	16	* †	Palisades, Colorado
Silver, Hazel Marguerite	HS Agr	28	* †	Urbana
Silver, Mary Verna	HS Agr		* †	Urbana
Silver, Milton Gans	LAS	101	* †	Champaign
Silverman, Isadore	Agr	84	* †	Chicago
Simmons, Elwyn Leroy	AE	37	* †	Oak Park
Simmons, Haskell George	EE	33	* †	Avon
Simms, Robert Chapman	Agr		* †	Chicago
Simons, Lewis Eugene	LAS		* †	Chicago
Simons, Rayna De Costa	LAS	103½	* †	Chicago
Simpson, Earl Bruce	Law	95	* †	Eldorado
Simpson, Irene Elizabeth	LAS (SS)	43	* †	Urbana
Simpson, John Milton	CE	85	* †	Terre Haute, Indiana
Simpson, Lawrence Packer	LAS	49	* †	Onawa, Iowa
Simpson, Luther Franklin	ME	108	* †	Moscow, Idaho
Simpson, Nelle Lucile	HS Agr	113	* †	Macomb
Simpson, Otis Earl	Agr sp		* †	Wahoo, Nebraska
Simpson, Sebastian Solon	SS			Pana
Simpson, Thomas Moore	Agr	95	* †	Alexis
Simpson, William George	LAS	69	* †	Dundee
Singer, Aaron Ernest	LAS	37½	* †	Chicago
Singh, Charn Jit	EE	114	* †	India
Sipe, Raymond Erwin	Agr	69	* †	Rochelle
Sistler, Rufus	Law sp	14	* †	Galconda
Skaer, Edwin William	SS			Belleville
Skelly, Ernest James	Com	2	* †	Davenport, Iowa
Skelton, Maurice Bradford	MdP (SS)	29	* †	Urbana
Skelton, Winifred George	LAS	29	* †	Urbana
Skemp, Edith Elizabeth	LAS		* †	Maywood
Skinner, Bertram Eugene	Agr	32	* †	Chicago
Skinner, Melvin Benjamin	KEE	33	* †	Salem
Skinner, Russell	SS	7		Lexington
Skoglund, Herbert LeRoy	Agr		* †	Red Wing, Minnesota
Skoglund, Reuben Adolphus	Agr		* †	Red Wing, Minnesota
Slack, William Silas	EE	71	* †	Salem
Slade, Elizabeth Muriel	HSLAS	19	* †	Rockford
Slade, Katherine Claire	LAS	67	* †	Rockford
Sladek, George Edward	CerE	106	* †	Chicago
Sladek, Robert Bohumil	Agr	70	* †	Cicero
Slaght, Evert Leroy	AE (SS)	20	* †	Chicago Heights
Slayton, Willis Francis	Agr	84	* †	Tulsa, Oklahoma
Slick, Glen Falknor	LAS		* †	South Bend, Indiana
Sloan, Amelia Marie	HS Agr	98	* †	Salt Lake City, Utah
Sloan, Charles Harvey	EE		* †	Canton
Sloan, Deena Agnes	LAS	33	* †	Urbana
Sloan, Madeline Rebina	Agr	32	* †	Urbana
Slocum, Russell Wade	Agr	32	* †	Chicago
Smale, William Apsley	Agr sp		* †	San Diego, California
Small, Bonny	Agr sp		* †	New York City, New York
Small, Dee	Agr	33	* †	Galatia
Small, Helen Dot	LAS sp		* †	Urbana
Small, Tryphosa Eliza	HS Agr		* †	Urbana
Smallwood, J P	Com (SS)	99½	* †	Decatur
Smart, Ada Elmira	LAS	23	*	Hinsdale

Smart, Alfred	MSE (SS)	77	* † Chicago
Smart, Chauncey Harrison	Agr	98	* † Hinsdale
Smart, Ethelyn Marion	LAS	29	* † Hinsdale
Smetana, Robert Joseph	AE	33	* † Chicago
Smidl, Edward	AE	110	* † Chicago
Smiley, Arval Marion	Agr	23	* † Tab, Indiana
Smiley, Earl James	CE	27	* † Elgin
Smith, Annie May	SS	6	* † Coats, Kansas
Smith, Anson Nye	Agr		* † Fitchburg, Massachusetts
Smith, Bryan Arthur	MdP	42	* † Sullivan
Smith, B. Howard, Jr.	LAS		* † Kansas City, Missouri
Smith, Clara Mabel	SS		* † St. Clair, Michigan
Smith, Clarence Walter	LAS (SS)	92	* † Champaign
Smith, Cloyd Moffat	MSE	36	* † Champaign
Smith, David Mervin	Agr	31	* † Urbana
Smith, Da Von	EE		* † Urbana
Smith, Edmund Joseph	LAS		* † Chicago
Smith, Elizabeth Maude	SS		* † Princeton, Indiana
Smith, Eunice Edwinia	LAS		* † Chicago
Smith, Everett William	CerE	29	* † Geneva
Smith, Fern Gladys	LAS	16	* † Maywood
Smith, Forest Henry	EE	62	* † Libertyville
Smith, Fred Ernest	LAS		* † Urbana
Smith, George Dewey	EE		* † Rising Sun, Indiana
Smith, George Edward	Agr	28	* † Warrensburg
Smith, George Leslie	Agr	98	* † Geneseo
Smith, Gladys Louise	LAS	119	* † Rochelle
Smith, Glenn Charles	SS		* † Grundy Center, Iowa
Smith, Glenn Collins	Agr	100	* † Greenfield
Smith, Hansel Young	EE		* † Frankfort, Indiana
Smith, Harold Wetmore	Agr		* † Chicago
Smith, Hawley Lester	LAS	71½	* † Clifton
Smith, Ida May	SS	4	* † Freeport
Smith, Isaac Wesley Kelly	Agr	16	* † Carmi
Smith, Jesse Carl	ChE		* † Vandalia
Smith, John Bradley	Agr		* † Chicago
Smith, John Wesley	ME	106	* † Geneseo
Smith, Joseph Edward	ME		* † Chicago
Smith, Kenneth Hamilton	LAS (SS)	58½	* † Chicago
Smith, Leonidas Logan	Arch	63	* † Toledo
Smith, Lois Loella	Mus (SS)	33	* † Urbana
Smith, Mabel	Mus	102	* † Urbana
Smith, Margaret Helen	LAS	22	* † Elmwood
Smith, Marian Kathryn	Agr	32	* † Monticello
Smith, Mary Parnell	HSAgr	77	* † Cuba
Smith, Oliver Francis	LAS	16	* † Broadlands
Smith, Oliver Russell	Agr		* † Warren
Smith, Opal Leona	LAS		* † Metcalfe
Smith, Orion Otis	Com	6	* † Oakwood
Smith, Orloff Elmer	SS	7	* † Lane, Kansas
Smith, Orrin Richard	Com	8½	* † Plainfield
Smith, Paul Curran	Agr		* † Peoria
Smith, Pearl Marie	SS	8	* † Kirkwood
Smith, Raymond Charles	Agr	67	* † Amboy
Smith, Robert James	LAS		* † Hume
Smith, Theodore Hammond	SS	66	* † Godfrey
Smith, Valda Eveline	HSLAS	64	* † Geneseo
Smith, William Howard	Agr		* † Yorkville
Smith, Wilson D	Com		* † Geneseo
Smithers, Perry Lafayette, Jr	Com	24	* † Wilmette
Smohl, Barbara Belle	LAS	10½	* † Vandalia
Smoot, William Everett	Agr	98	* † Greenview
Snell, Clarence Eastlake	Com	64	* † Oak Park
Snell, Harry Stirling	Chem	68	* † Oak Park
Snell, Lucille Helen	SS	1½	* † Vandalia
Snider, George Wilson	Agr	37	* † Oklahoma
Snodgrass, Joe Pifer	SS		* † Janesville
Snow, Ruth Lucille	Mus	23	* † Elgin
Snyder, Daniel Victor	CE (SS)	39	* † Chicago
Snyder, George David	Com	50	* † Altoona, Pennsylvania
Snyder, Harold Alvin	EE		* † Freeport
Snyder, Harold Vesey	LAS		* † Rockford
Snyder, Willard Ayres	AE		* † Mt. Pulaski
Sodaro, Joseph Clarence, Jr.	MdP	31	* † Aurora
Soderberg, Harry	AE	77	* † Florence, Wisconsin
Soenksen, Paul William	Com	52	* † Harvey
Somdal, Dewey Anderson	Arch		* † Springfield
Somers, Aloysius Joseph	Agr	64	* † Kankakee
Somers, Francis Patrick	Chem	61½	* † Kankakee
Somers, Paul Peter	Chem	18	* † Kankakee
Somers, Russell Ivan	LAS	39½	* † St. Joseph
Sommers, Ralph Mithell	Com	26½	* † Chicago
Sonnemann, Alma Wilhelmine	IFSLAS		* † St. Louis, Missouri
Sontag, Raymond John	Com		* † Chicago
Sortwell, Harold Haynes	CerE	74	* † Indianapolis, Indiana

Sotola, Jerry	Agr	60	* † Chicago
Southcomb, Leslie Spencer	Com	28	* † Morris
Soward, Zelda Elizabeth	LAS		* † Pithian
Sowers, Gordon Alfred	Agr	84	* † Kingman, Indiana
de Sowza, Jose Cuba	RCE	33	* † Brazil
Spaethe, Charles Alonzo	EE		* † Columbus Junction, Iowa
Spainhour, Alma Marie	LAS	30	* † Clinton
Spangler, Charles Foskey	Com	89	* † Amboy
Spangler, Rodney Eugene	Agr		* † Amboy
Sparks, Keith Emanuel	LAS	35	* † Connersville, Indiana
Sparks, Myrtle Eva	SS		* † Champaign
Spates, Gladys Mary	HSLAS	24	* † Taylorville
Spatny, Zdenka	LAS	33	* † Chicago
Spaulding, William Henry	SS	6½	* † Melrose, Wisconsin
Spear, Harry George	SS	33	* † Rankin
Spear, Helen Eudora	LAS	58	* † Rockford
Speegle, Uless Alfred	ME		* † Eldorado
Speer, Whitcomb Glenn	SS	3	* † Holton, Kansas
Speisman, Irvin Gabriel	MdP	36	* † Chicago
Spelce, John Edward	LAS (SS) sp	30½	* † Sycamore
Spence, Helen Baker	SS		* † Milwaukee, Wisconsin
Spencer, Mrs. Blanche Beebe	LAS (SS)	33	* † Vandalia
Spencer, Cynthia Eugenia	LAS (SS)	95½	* † Champaign
Spencer, John Ralph	Agr	36	* † Geneseo
Spencer, Nora Virginia	Mus sp		* † Homer
Spencer, Robinson, A.B. (Wesleyan Univ.) 1903	Lib		* † Roswell, New Mexico
Spencer, Stanley Fred	Com sp	22	* † Urbana
Spengler, Harold Carl	ME		* † Rockford
Sperry, Mabel Frances	HS Agr	30	* † Urbana
Sperry, Ralph Edward	Com	70	* † Urbana
Spicer, William Glenn	EE		* † Marsilles
Spiegler, Louis	LAS	16	* † Chicago
Spindler, Carl	ME		* † Peoria
Spindler, Walter Herbert	CE		* † Peoria
Spink, Frank Henry	Chem		* † Chicago
Spink, Phil Marion	Com	69½	* † Chicago
Spitz, Milton Joseph	Chem	46½	* † Chicago
Spofford, Franklin Dawson	EE		* † Warren
Spors, Albert Robert	Com		* † Quincy
Sprague, Cena Labina	Lib	29	* † Grafton, North Dakota
Sprague, George Chester	Agr	39	* † Lockport
Sprague, Norman Ellsworth	CE	79	* † Evanston
Sproull, Raymond Arthur	LAS	96	* † Mazon
Squier, Edward Gray, B.S. (Iowa State College) 1916	Com		* † Grinnell, Iowa
Squire, George Kasson	ME	123	* † Rockford
Stabler, Harold Robertson	Com		* † Camp Point
Stables, Floyd F	SS	13	* † Lexington
Stabo, Nils Eivind	Com		* † Decorah, Iowa
Stafford, Edward Emerson	LAS	34	* † Alton
Stahl, Chester Dewey	EE		* † Tonkawa, Oklahoma
Stall, Willis Preston	Agr	100	* † Champaign
Stallings, Eugene Michener	ChE (SS)	36	* † Danville
Stallings, Samuel Joseph	Com	29	* † Amarillo, Texas
Stambaugh, Vivian Guy	Agr	145	* † Spokane, Washington
Stamm, George Frederick	Agr		* † Aurora
Stamp, Fred Piarr	LAS	28	* † Wheeling, West Virginia
Stangel, Adelaide Josephine	LAS	23	* † Champaign
Stangel, Victor	Com	41	* † Champaign
Stanley, Deane Field	MdP	36	* † Urbana
Stanley, Leon	Agr	101	* † Downers Grove
Stanley, Walter	Com	67	* † Anderson, Indiana
Stansfield, James Gillespie	Agr	34	* † Lawrenceville
Staples, John Forest	Agr	67	* † South Bend, Indiana
Stark, John Wayne	Agr	33	* † Nebo
Stark, Max William	Com		* † Hume
Stark, Robert Watts, B.S., 1895	Agr (SS) sp		* † Urbana
Starkel, Charles Leslie	LAS	63	* † Belleville
Starnes, Verner	LAS	134	* † Carlisle, Indiana
Starr, Ethel May	Mus sp		* † Champaign
Starr, Sidney Keller	Agr		* † Belvidere
Starr, Stephen William	LAS		* † Champaign
Starrett, Robert George	Com	14	* † Sheldon, Iowa
States, Mary Louise	LAS	48	* † Urbana
Stayanoff, Nicholas Dimoff	LAS		* † Varna, Bulgaria
Stead, Charles Baldwin	CE	8	* † Griggsville
Stead, Rowland Wilson	CE	35	* † Galva
Steers, William Beeson	CE	30	* † Metropolis
Steidl, Irene Lucile, A.B. (Univ. of Nebraska) 1915	Lib		* † Crete, Nebraska
Stein, Bertha Marie	HSLAS	70	* † Blue Island
Steinberg, Naomi Annette	LAS		* † Chicago
Steinhauser, William August	AE		* † Berwyn
Steinhoff, Frederick Louis	CerE	107	* † Chicago
Stejskal, Marie Antoinette	LAS	33	* † Chicago

Stephens, Ethel Gertrude	LAS (SS)	109½	* †	Murphysboro
Stephens, Hazel Margaret	HSAgr	33	* †	Champaign
Stephens, William	EE	62	*	Champaign
Stephenson, Juanita Alice	SS	28	*	Sparta
Sternaman, Edward Carl	ME	36	* †	Springfield
Steuart, Edward Paul	LAS	48	* †	Harvey
Stevens, Harry Howard	Com		*	Mazon
Stevens, Helen Ford	LAS		*	Oglesby
Stevens, John Grier	ME	31	* †	Chicago
Stevens, Joseph Hammond	Com	34	* †	Chicago
Stevens, Marie Felicia	LAS	67	* †	St. Louis, Missouri
Stevens, Richard William	Agr (SS)	114½	* †	Joliet
Stevens, Robert Gardiner	EE	67	* †	Chicago
Stevens, Roger Greenleaf	LAS		* †	Chicago
Stevens, Vernon Thompson, A.B., 1915	Law	184	* †	Corpus Christi, Texas
Stevens, Wayne McKenzie	Agr	113	* †	Taylorville
Stevenson, Ailsie Miller	HSAgr	99	* †	Peoria
Stevenson, Dorothy	HSAgr	96	* †	Gilman
Stevenson, Edward Hiel	Agr	69	* †	Elkaston
Stevenson, Elmira Comfort	HSAgr	30	* †	Streator
Steuernagel, Bella	SS		*	Belleville
Stewart, Beulah Louise	LAS		* †	Freeport
Stewart, Carl Russell	Agr	159	* †	Monmouth
Stewart, Edward Mason	AE		* †	Kansas City, Missouri
Stewart, Frank	SS	7	*	Nashville
Stewart, Frank	LAS	92	* †	Denver, Colorado
Stewart, Frank Samuel	Agr	164	* †	Monmouth
Stewart, John Wilson	SS	1½	*	Sioux Falls, South Dakota
Stewart, Melville Boicourt	MinE	141	*	Metropolis
Stewart, Mrs. Ruth	HSLAS		†	Urbana
A.B. (Illinois Woman's College) 1916				
Stewart, William Ellis	Com		†	Columbus, Indiana
Stice, Ostin Angus	Agr	33	* †	Waverly
Stidham, Melissa Geneva	Agr sp	28	* †	Mahomet
Stiegemeier, Clara Marie	SS	53½	*	St. Louis, Missouri
Stienecker, John Alvin	SS	9½	*	Chicago
Stiff, Ethel	LAS (SS)	76½	* †	Harrisburg
Stigall, Bennett Merriman	SS		*	Stewartsville, Missouri
Stillwell, Genevieve Maud	HSAgr (SS)	78½	* †	Urbana
Stillwell, Helen	LAS (SS)	72	* †	Urbana
Stiritz, Benjamin Andrew	Agr	68	* †	Murphysboro
Stockdale, Thomas Elmer	CE	111	* †	Grand View, Idaho
Stockenberg, Ruben	ME	40	* †	Rockford
Stoddard, George Wellington	AE	103	* †	Milwaukee, Wisconsin
Stoddard, John Colby	SS	8	*	Atkinson
Stoever, Petronilla Gertrude	LAS		* †	Raymond
Stokes, John Edward	SS		*	Firslburg, Maryland
A.B., (West Maryland Coll.) 1913				
Stoltey, Benjamin Franklin	LAS (SS) sp	6½	* †	Champaign
Stoltey, Ethel Lynette	HSLAS (SS)	67	* †	Urbana
Stoltey, Marjorie Zell	SS	5	*	Champaign
Stone, Charles Arthur	CerE	108	* †	Chicago
Stone, George William	Agr	23	* †	Polomac
Stone, William Samuel	LAS	42	* †	Villa Ridge
Storer, Esther Susie	LAS	73	* †	Centralia
Storer, Walter Henry	LAS	32½	* †	Centralia
Storm, Mabel Fern	LAS	56	* †	Morrisenville
Story, Jessie Gertrude	LAS	57½	* †	Nebraska
Story, William Murray	AE		* †	Chariton, Iowa
Stouffer, Earl Walter	Agr		* †	Hampton, Iowa
Stouffer, Ernest Lawrence	Arch	72	* †	Decatur
Stout, Mrs. J E	SS	1	*	Preemption
Stout, Samuel	MdP		* †	Mahomet
Stoutenborough, George	LAS	35	* †	Maroa
Stoutzenberg, Florence Thomas	HSAgr	114	*	Greenville
Stover, Earl Bertram	REE	60	* †	Oak Park
Stoyanoff, Nicola D	LAS		*	Granite City
Straight, Leta Lenore	LAS		*	Fonda, Iowa
Straight, Merton Taunor	Agr	75	* †	Fonda, Iowa
Strain, Robert Mulford	LAS		* †	Mulberry Grove
Strane, Archie Abir	ME	32½	* †	Marion, Iowa
Strathern, N Grant	LAS	69	* †	Springfield
Stratton, Grace Bruce	LAS	96	* †	Chattanooga, Tennessee
Straub, Ernest Joseph	CE		* †	Kansas City, Missouri
Straub, Fred Guy	LAS		* †	Chicago
Straub, Joseph Valentine, Jr.	Agr		* †	Kansas City, Missouri
Strauch, Walter Fred	Chem	62	* †	Chicago
Strauch, Donald Jay	RCE (SS)	102	* †	Peoria
Straus, Martin Louis	LAS		* †	St. Louis, Missouri
Strauss, Daniel Arden	Com		* †	North Manchester, Indiana
Strawbridge, Ewart	Com		* †	Chicago
Strawn, Paul	Agr	15	*	Jacksonville
Strawn, Robert Emerson	Agr sp	26	*	Pleasant Plains
Streed, Felix Lewis	MSE	69	* †	Waukegan
Stremmel, George Stephens	MdP (SS)	18½	*	Macomb

Stringer, Joseph Kenneth	Com (SS)	95	* †	Dubuque, Iowa
Strode, Alsia Mae	Mus sp		* †	Champaign
Strong, James Kibbe	Agr	100	* †	Keithsburg
Strong, Jesse Woodford	Com (SS)	74	* †	Canton
Strong, Truman Jefferson	Arch	114½	* †	Cheney, Washington
Strubinger, Gladys Lenore	LAS		* †	Barry
Strubinger, Joseph Roy	Agr	34	* †	Sidell
Strubinger, Louie Delecort	Com		* †	Barry
Struckmeyer, Carl Henry	SS			Hoyleton
Strusacker, Eugene Phillip	LAS sp		* †	Chicago
Stuart, Herbert Edwin	ME	52	* †	Chicago
Stubblefield, Ellis Deloss	Agr		* †	Normal
Stubblefield, Jesse	Agr		* †	McLean
Stubenrauch, Edgar Albert	Arch	49	* †	Sheboygan, Wisconsin
Stuhr, William	Arch	26	* †	Rock Island
Sturgeon, Margaret Erma	HSLAS		* †	Fisher
Sturm, Clark Henry	EE	70	* †	Elgin
Sukumlyn, Stephen William	LAS (SS)	30	* †	Kief, North Dakota
Sulger, Alden Harwood	Agr	76	* †	Terre Haute, Indiana
Sullivan, Edna Frances	HSLAS (SS)	32	* †	Champaign
Sullivan, George Cornelius	ME		* †	Highland Park
Sultzberger, James Adam	ChE		* †	Kansas City, Missouri
Summitt, James Levi	LAS	43	* †	Pesotum
Sun, Eu-lin	Agr (SS)	91	* †	Washington, D. C.
Sunderland, Glenn Henderson	SS			Golden Gate
Sunkel, Walter William	ChE		* †	Tulare, California
Suppes, Elsie Mabel	LAS	57	* †	Somonauk
Sutcliffe, Constance	LAS (SS)	84	* †	Urbana
Sutcliffe, Dorothy	SS			Urbana
Sutherland, Harold Hoyle	Agr	56	* †	McNabb
Sutton, William Henry	LAS	65	* †	Washington, D. C.
Swain, Donald Tyler	Com	92	* †	Danville
Swain, Earle Frank	LAS	53	* †	Chicago
Swanberg, Edmund De Forest	EE	70	* †	Worthington, Minnesota
Swanberg, Marion Goerz	HSLAS	66	* †	Detroit, Michigan
Swanson, Carl Ernest	AE	83½	* †	Aledo
Swartz, Fay Wood	Mus (SS)	113½	* †	Urbana
Swearingen, Paul Van	ME (SS)	24	* †	Champaign
Sweeney, Arthur Frantz	Com	61	* †	Chicago
Sweet, James William	SS	8		Polo
Sweet, Orville Roberts	Agr	67	* †	Sherman
Sweigert, Ray Leslie	AE		* †	Sterling
Swenson, Carl Elmer	ME	117	* †	Chicago
Swenson, Stanley Rudolf	Com		* †	Chicago
Swenson, Earl Ebenezer Samuel	ME	73	* †	Lindsboro, Kansas
Swick, Curvella H	Law	85½	* †	Galton
Swickard, William S, Jr.	LAS		* †	Newman
Swift, Dana Elery	ME		* †	Waverly
Swift, Gertrude Lucile	LAS	66	* †	Streator
Swigart, Faith Gretchen	LAS	99	* †	Champaign
Swindler, Henry Oscar	Com	61	* †	Magnolia
Swindler, Rollin Leland	Agr	104	* †	Champaign
Taggart, David Alexander	LAS		* †	Wooster, Ohio
Taggart, John Findlay	Agr	100½	* †	Wooster, Ohio
Talbert, Lawson Stanton	Com sp		* †	Garrett, Indiana
Talbot, Clarence Prescott	Agr		* †	Rochelle
Talbot, James	Agr	34	* †	Sterling
Talbot, Rachel Harriet	LAS	71	* †	Urbana
Talbot, Violet Blanche	LAS		* †	Evanston
Taliaferro, Virginia Beulah	LAS		* †	Topeka, Kansas
Tallmadge, Chester Livingston, Jr.	LAS	8½	* †	Chicago
Tang, Chen Long	RCE		* †	Chi-shu Hsien, China
Tanner, John Porter	SS		* †	Owensboro, Kentucky
Tanner, Thomas Sheridan	AE (SS)	118	* †	Dwight
Tanton, Glenwood Charles	Agr	88	* †	Washington
Tapscott, Charles Cameron	LAS		* †	St. Louis, Missouri
Tarbox, Robin James	Agr	34	* †	Urbana
Tatsch, Walter Karl	CE	29	* †	Chicago
Taulbee, Horton Mills	Agr	69	* †	Hillsboro
Taylor, Amos Lovejoy	SS			Creal Springs
Taylor, Benjamin Franklin	LAS	33	* †	Lacon
Taylor, Chalmer Cline	LAS		* †	LeRoy
Taylor, Charles Bagwell	CE	76	* †	Urbana
Taylor, George	LAS		* †	Pryor, Oklahoma
Taylor, Grace DeEtte	HS Agr	96	* †	West Plains, Missouri
Taylor, Kathleen	HSLAS	30	* †	Harrisburg
Taylor, Laurence Righter	LAS	43	* †	Indianapolis, Indiana
Taylor, Margery Leeds	LAS		* †	Michigan City, Indiana
Taylor, Max	SS	119		Pryor, Oklahoma
Taylor, Norris Onslow	ChE	67	* †	Geneseo
Taylor, Orville Edgar	SS	7½		Genoa
Taylor, Paul Canaday	Com		* †	Mooresville, Indiana
Taylor, Ross	LAS sp	16	* †	Carriers Mills
Taylor, Ross Wallace	LAS	63	* †	Bement
Taylor, Roy H	Agr (SS)	79	* †	Bismarck

Taylor, Tracy Alvord	<i>Chem</i>		* †	Rockford
Taylor, Townsend John	<i>SS</i>	54	* †	Owensboro, Kentucky
Taylor, William Quinn	<i>RME</i>		* †	Rockford
Teal, Paul Hamilton	<i>Agr</i>	159½	* †	Arcadia, Indiana
Teasdale, John Warren	<i>Arch</i>	94	* †	St. Louis, Missouri
Teeters, Mary Etta	<i>HSLAS</i>	98	* †	Auburn, Indiana
Teixeira, Emilio Alvers	<i>ME (SS)</i>	120½	* †	Cassia, Minas, Brazil
Temple, George William	<i>Ccm</i>		* †	Champaign
Tendick, Frank Hulit	<i>ChE</i>	132	* †	Canton
Tener, Katherine Randall	<i>LAS</i>	100	* †	East Cleveland, Ohio
Ten Eyck, Irene Blanche	<i>HSLAS</i>		* †	Rockford
Teninga, Alfred John	<i>Agr</i>		* †	Chicago
Terpinitz, Jennie Grace	<i>LAS</i>		* †	Champaign
Terry, Mead Meehan	<i>Com</i>	32	* †	Chicago
Terry, Robert Byron	<i>LAS (SS)</i>	96	* †	Gerard
Thacker, Charles Brooks	<i>Agr (SS)</i>	102½	* †	Vienna
Thacker, Ralph William	<i>SS</i>			Santa Ana, California
Thal, Adolph Freiderich	<i>ChE</i>	36	* †	Champaign
Thatcher, Frederick Robert	<i>Com</i>	72	* †	Elgin
Theobald, Paul Kellogg	<i>SS</i>			Jacksonville
Thiele, Ernest William	<i>LAS</i>	60	* †	Chicago
Thiele, Joel Baker	<i>EE</i>	33	* †	Ramsey
Thiele, Ross Henry	<i>Arch</i>	123	* †	Ramsey
Thiem, Ezra George	<i>Agr</i>		* †	Chicago
Thomas, Alfred Clarence	<i>LAS</i>		* †	Des Moines, Iowa
Thomas, Edward Harry	<i>MdP</i>		* †	Argentina
Thomas, Grace	<i>Mus</i>	16		Weldon
Thomas, Harold Dewey	<i>Agr (SS)</i>	33½	* †	Bisbee, Arizona
Thomas, Harry A	<i>Agr</i>	64	* †	Rockford
Thomas, Joe Lee	<i>Agr</i>	157	* †	Charleston, W. Virginia
Thomas, John Theron	<i>LAS</i>	35	* †	Bellville
Thomas, Joseph Hancock	<i>MdP</i>		* †	New Douglas
Thomas, Myron Selah	<i>AE</i>			Waterville, Kansas
Thomas, Nelson Reno	<i>Com</i>	35	* †	St. Louis, Missouri
Thomas, Raymond Victor	<i>SS</i>			Ashland, Oregon
Thomas, Royle Price	<i>Agr</i>	26	* †	Sullivan, Indiana
Thomas, Stanley Jeremiah	<i>CE</i>	108½	* †	Vincennes, Indiana
Thomas, Theodore Gladstone	<i>Arch</i>	69	* †	Chicago
Thompson, Alice Agnes	<i>LAS</i>	3	* †	Columbus, Indiana
Thompson, Fred Leo	<i>LAS</i>	48½	* †	Garrett, Indiana
Thompson, George S	<i>Com</i>	102	* †	Elkhart, Indiana
Thompson, Guy Holsinger	<i>SS</i>			Chambersburg, Pennsylvania
Thompson, Herle Allen	<i>Agr</i>	27	* †	White Heath
Thompson, Jesse James	<i>SS</i>	15½	* †	Benton, Kentucky
Thompson, Leslie Clayton	<i>Agr</i>		* †	Piper City
Thompson, Lowell Ernest	<i>Com</i>			Rantoul
Thompson, Marvin Waterburn	<i>LAS</i>	20	* †	Chicago
Thompson, Orlando Stephen	<i>Agr</i>	104	* †	Harvey
Thompson, Rex Roland	<i>LAS</i>	24	* †	Berwyn
Thompson, Russell Hopkins	<i>Com</i>	102	* †	Sullivan, Indiana
Thompson, Stella McDowell	<i>SS</i>	6½		Parkville, Missouri
Thompson, William Charles	<i>Arch</i>	56	* †	Chicago
Thompson, William Lewis Voris	<i>Com</i>	31	* †	Indianapolis, Indiana
Thompson, William McKinley	<i>MdP</i>	30		LaRose
Thomsen, Marvin William	<i>LAS</i>	76		Fulton
Thomson, Lillian Euphenia	<i>LAS</i>	63	* †	Creston, Iowa
Thomson, Vivian Margaret	<i>SS</i>			Waukegan
Thomson, William White	<i>LAS</i>	96	* †	Rockville, Indiana
Thor, Alfred Ulmo	<i>Agr</i>	63	* †	Rollo
Thornsburgh, Zada Goff	<i>LAS (SS)</i>	74	* †	Urbana
Thornton, Maurice Emerson	<i>Arch</i>	34	* †	Indianapolis, Indiana
Thornton, William DeSales	<i>SS</i>	½		Geneva, New York
Thorp, William Walter	<i>Com</i>	29	* †	Rochelle
Thorsell, Arthur Alfred	<i>ME</i>		* †	Rockford
Thorud, Bert Marshall	<i>AE</i>	72	* †	Chicago
Thory, Hans Christian	<i>LAS (SS)</i>	39½	* †	Chicago
Thurlow, Henry Plummer	<i>Agr</i>	98½	* †	Lynn, Massachusetts
Thurston, Alfred William	<i>Agr</i>	68		Champaign
Ticknor, James Hotchkiss	<i>AE</i>	128½	* †	Peoria
Tiffany, Mary	<i>Mus sp</i>			Antioch
Tiffin, Joseph Dow	<i>Agr</i>	63	* †	Walshville
Tikotzky, Carl	<i>ChE</i>		* †	Chicago
Tilden, Ralph Sanford	<i>LAS</i>		* †	Canton, Ohio
Tillotson, Amy Iola	<i>LAS</i>		* †	Roswell, New Mexico
Tillotson, Clara Eva	<i>LAS (SS)</i>	41	* †	Roswell, New Mexico
Tillson, Vivian Earle	<i>Chem</i>	67	* †	Baker, Louisiana
Tinke, Otto George	<i>EE</i>	104	* †	Decatur
Tipton, Warren Armstrong	<i>ME</i>		* †	Allon
Tobias, Frank	<i>Com</i>	33	* †	Normal
Todd, Dana Lee	<i>LAS</i>	58	* †	Oklahoma City, Oklahoma
Todd, Malcolm Newton	<i>SS</i>			Tunnelton, Indiana
Toll, Arno William	<i>ME</i>	37	* †	Chicago Heights
Tolman, Robert Gardner	<i>Com</i>		* †	Yonkers, New York
Tolmie, Thomas William	<i>AE</i>	115	* †	Dubuque, Iowa
Tombaugh, Glen Deach	<i>Agr</i>	73½	* †	Pontiac

Tomecko, Cyprian George	SS	5		Lipton, Sask., Canada
Tompkins, Ralph Hawthorne	LAS	67½	* †	Eagle Grove, Iowa
Tompkins, Roy Woodruff	CerE	56½	*	Joliet
Tong, Teh-Chang	LAS	83	* †	Hunan, China
Tong, Towe	Com (SS)	34½	* †	Washington, D. C.
Toothaker, Harry Hawkins	CE (SS)	26	*	Sandoval
Torgerson, Edward Fritchhoff	Agr		†	Urbana
B.S., 1914				
Tornquist, Alpha Caroline	HSLAS	116	* †	Champaign
Torrence, Franklin Albert	LAS	25	*	Chester
Tourtlot, Frederick Ignatius	EE		* †	Oak Park
Touve, Lisette Magdalena	Mus		* †	Centralia
Towe, Harold Theodore	LAS	16	*	Toledo, Ohio
Tower, Alexander McJunkin	REE	107	* †	Fort Wayne, Indiana
Tower, Carleton Myron	Com	69	* †	Gillett, Arkansas
Tower, Tracy Travers	Com		†	Mendota
Townsan, George Leland	LAS	60	* †	Urbana
Townsend, Mildred Lorene	SS	29	*	Champaign
Townsend, Sidney Funk	Agr		* †	River Forest
Tracy, Paul Hubert	Agr	67	* †	Paris
Trautman, Louis Leander	Com sp		* †	West Indies
Traver, Chauncey M	SS	7	*	San Francisco, California
Traxler, Dollie Maye	Com		* †	Urbana
Traxler, Elinor Evangeline	Com (SS)	67	* †	Urbana
Traxler, Ivan Ward	Agr	44	* †	Urbana
Traylor, Ross Jennings	SS	4	*	Coffeen
Treat, Edna	Mus sp		*	Urbana
Trelease, Sidney Briggs	Com (SS)	82½	* †	Urbana
Trenchard, Leonard Ambrose	Agr		* †	Hardin, Missouri
Trenchard, Wilma Lois	LAS	62	* †	Hardin, Missouri
Trickle, Lenox Edmond	REE	72	* †	Rantoul
Trout, Clement Eddy	SS	132	*	Champaign
Troster, Marion Collier	Com	64	* †	Bellflower
Troutman, William Chilton	LAS	107	* †	Carl Junction, Missouri
Trowbridge, Emma Cornelia	LAS		* †	Green Valley
Trowbridge, William Oliver	Agr	60	* †	South Bend, Indiana
Truax, Allison Eugene	SS	64	*	Crystal Lake
True, Leighton Joy	Com sp	3	*	El Cajon, California
Truitt, Theodosia	LAS		* †	Chicago
Trumbo, Elias Halberlin	Agr		* †	Ottawa
Trumbo, James Koeley Chester	MdP		* †	Pontiac
Tsang, Wai Kwong	CE sp		* †	Hong Kong, China
Tucker, Gladys May	Com	19	* †	Highland Park
Tucker, Gustave Morton	CerE	104	*	Chicago
Tucker, Harold James	MinE		* †	McDowell
Tucker, Marion	LAS		* †	Champaign
Tucker, Rolland Henry	Agr	65	* †	Minonk
Tucker, Will Hunsinger	Com		* †	Mt. Vernon
Tucker, William Henry	ChE	28	* †	Morrison
Tuell, Wallace Gerry	EE	106	*	Canton
Tuckey, Harold Bradford	Agr	68	* †	Berwyn
Turley, Harold Edwin	Agr	69	* †	Burney, Indiana
Turnbull, Clifford Griffith	Agr	34	* †	Champaign
Turnbull, Helen Eleanor	LAS		* †	Champaign
Turner, Alexander Harvey	Agr	106	*	Loda
Turner, Carl Winford	MdP		* †	East St. Louis
Turner, Charles Edward	LAS	104	* †	Mt. Sterling
Turner, Chester Charles	Agr	101	* †	Urbana
Turner, Harold Horton	ME	45	* †	Chicago
Turner, James Marion	SS	17	*	Lovington
Turner, Luther Martin	EE	93	* †	Beardstown
Turner, Merle Bernice	LAS	33	* †	Champaign
Turner, Robert Nathaniel	CE		* †	Dayton, Ohio
Turner, Wayne Isaac	Agr	31	* †	Urbana
Turner, William Robert	SS	3	*	Palmira
Turnquist, Elmer Nels	LAS	62	* †	Canton
Turnquist, Ivar William	Agr	70	* †	Chicago
Turnquist, Ruby Marie	HSAgr		* †	Chicago
Turpin, Charles Udell	Com	31	* †	St. Louis, Missouri
Turrell, Mrs. Amy Sara	SS	4		
Turrell, Marion Charles, A.B. (West Virginia Univ.) 1903	SS			Milledgeville
Tuthill, James Pierce	CE	109	* †	Elgin
Tuttle, Charlotte	Arch	36	*	Wilmotte
Tutwiler, Robert Evans	Cam		* †	River Forest
Twells, Robert	CerE	38	* †	Chattanooga, Tennessee
Twigg, Marguerite Teresa	LAS		* †	Brocton
Twitchell, Angie Ruth	LAS	60	* †	Bellenille
Udinski, William Philip	CE	61	* †	Jersey City, New Jersey
Ulich, Lynne Herman	SS	6	*	Villisca, Iowa
Underhill, George Ellsworth	EE		* †	Elgin
Unger, George Walter	Arch	69	* †	Oak Park
Upchurch, Mabel Frances	SS	8½	*	Ewing
Urbach, Dalton Norman	LAS		*	Dubuque, Iowa
Urbain, Arthur Jules	Chem (SS)	84½	* †	DuQuoin

Usis, Bessie Nellie	Com		* †	Niles
Uthoff, Pearl Kathryn	LAS	31	* †	Princeton
Utley, Nelson Monroe	Com	68	* †	Chicago
Utt, Arthur Holliday	Agr	11	* †	Springfield
Utt, Ralph Chester	Agr		* †	Chicago
Vail, Charles Winfield, Jr.	Com		* †	Chicago
Vail, Edna Cora	HSLAS	32	* †	Springfield
Vail, Nina Lee	LAS		* †	Macomb
Valentine, Edwin Ernest	AE	12	* †	Green Bay, Wisconsin
Valentine, Frank Wayne	Chem	71	* †	Mt. Vernon
Valentine, George Snow	Com	67	* †	Evanston
Van Bramer, Douglas Francis	Agr		* †	Chicago
Vance, Claire Kinsey	ME		* †	Logansport, Indiana
Van Cleave, Bruce	Law	98	* †	Springfield
Van Cleave, Wallace	Agr	62	* †	Springfield
Van Dam, Earnest	LAS	19	* †	Ludlow
Vanden Bosch, James Walter	Com	33	* †	South Bend, Indiana
Vanderpool, Arthur Meritt	ME	36	* †	Morris
Vandervort, Maurice Linwood	AE		* †	Kankakee
Van Deusen, Arthur Stowe, Jr.	Com	65	* †	Evanston
Van Deusen, John LeRoy	CE	56	* †	Greenville
Van Deventer, Dale Vernelle	Agr		* †	LeRoy
Vandeventer, Penton Ross	Agr	33	* †	Mt. Sterling
Van Deventer, Frank Macknet	ME	104	* †	Decatur
Van Deventer, Ruth Marlowe	Agr		* †	Springfield
Van Dorn, Theodore Joseph	Law	60	* †	Springfield
Van Dyke, Earl Henry	Agr	101	* †	Plainfield
Van Houten, Frank Henry	Agr	2	* †	Chicago
Van Inwegen, Helen	Agr		* †	Oregon
Van Lieu, John M	SS	7½		Des Moines, Iowa
Van Meter, Craig	Law	91	* †	Maltoon
Van Meter, Verl Fred	Com		* †	Bushnell
Vanneman, Edgar	SS	6½		
Van Praag, Alec, Jr.	CE (SS)	111	* †	Decatur
Van Ryn, Van Alkemade, Leendert Willum	LAS		* †	Chicago
Van Vleet, Ruth Hazel	LAS		* †	Aurora
Van Winkle, Paul Keith	Com	100	* †	Chicago
Varney, Clara Elsie	HS Agr	18	* †	Delavan
Vaughan, Fred Nathan, Jr.	Agr	59	* †	Amboy
Vaughan, Rufus Emerson	Agr	50½	* †	St. Louis, Missouri
Vaughn, Howard Flaghn	AE (SS)	57	* †	Urbana
Vaught, Sallie McCormick	Lb	33	* †	Lebanon, Indiana
Vear, Leonard Ray	Agr	60	* †	Chicago
Vedder, Earl Charles	LAS	101	* †	Lockport, New York
Veirs, Willard Lewis	Med	103	* †	Urbana
Vennum, Mary Durham, A.B., 1913	Law		* †	Onarga
Vernon, Edith Blan	LAS (SS)	24	* †	Toledo
Vernon, Maris Hurford	CE	111	* †	Moline
Vernon, Russell Longacre	Agr		* †	Goshen, Indiana
Veronda, Maurice	LAS	60	* †	Carbon Hill
Vial, Harold Craigmile	Agr	69	* †	La Grange
Vial, Helen Gertrude	LAS	42½	* †	La Grange
Vial, Nathaniel Smith	Agr (SS)	58½	* †	La Grange
Vidal, Stephen Peter	MSE	30	* †	Gallup, New Mexico
Vinkvist, Bertha Aurora	Agr (SS) sp		* †	Uppsala, Sweden
Virgin, Eli Horace	SS	78		Virginia
Visscher, Nina May	SS			Frankfort, Kentucky
Vissering, Eckbart Bernhardt	Com	66	* †	Minonk
Vliet, Elmer Bennett	ChE (SS)	70	* †	Joliet
Vogele, Alfred Charles	Agr	69	* †	Assumption
Vogt, Frank Walter	CE		* †	Chicago
Voigt, Marie Louise	Mus	48	* †	Athens, Ohio
Volk, William Joseph	CE (SS)	59	* †	Chicago
Von Babo, Beatrice Louise	LAS	69	* †	Chicago
Von Ohlen, Floyd William George	Agr	32	* †	Hinckley
Voorhees, Evangeline	LAS	16	* †	Allon
Voorhees, Vanderveer	ChE	49	* †	Upper Allon
Vopatz, Joseph Francis	CE	72	* †	Oak Park
Voris, Bryant Brey	LAS		* †	Waterloo
Voss, Anne	Mus	72	* †	Champaign
Voss, John, Jr.	AE	70½	* †	Peoria
Waddington, Glenn George	ME	99	* †	Dewey
Wadsworth, Goldie May	LAS	96½	* †	Connersville, Indiana
Wagenseller, John Richard	Agr		* †	Fairbury
Wager, Maurice	ME		* †	Chicago
Waggener, Jeannette Cordelia	LAS sp		* †	Martin, Tennessee
Waggoner, Karl Marshall	Arch	118	* †	Decatur
Waggoner, Marion Earle	Agr		* †	Gibson City
Wagner, Charles Arthur, Jr.	EE (SS)	65	* †	Springfield, Missouri
Wagner, Esther Angelica	LAS		* †	Forest Park
Wagner, Frank Hans	Agr	24	* †	Rockford
Wagner, Roberta Jennie	LAS		* †	Chicago
Wagner, Wesley Gephart	Agr	31	* †	Urbana
Wagner, William John	Com		* †	Jerseyville
Wagstaff, Charles Dudley	Agr	82	* †	Tipton, Indiana

Wahl, Leo Jacob	SS	65		Sterling
Wakefield, Mildred Amy	LAS	23	* †	Lake Benton, Minnesota
Wakeland, Fred Raymond	Agr	62	* †	Hoopston
Wakeland, Guy Earl	Agr	94	* †	Hoopston
Waldo, Abner Weston	Com	102	* †	Libertyville
Waldo, Henry Marshall	LAS		* †	Libertyville
Waldo, John Hardenbergh	CerE	43	* †	Urbana
Waldron, Norman E	Agr	60	* †	Walcottville, Indiana
Walk, Marney Lawrence	AE	24½	* †	Sigel
Walker, Elliott Pyle	Com	34	* †	Buller, Missouri
Walker, Frank Abram	Agr	99	* †	Aurora
Walker, Helen	HSLAS	66	* †	Clinton
Walker, Nelle	LAS	62	* †	Carterville
Walker, Russell Telis	EE	72	* †	Dongola
Walker, Stanton	MSE	110½	* †	Champaign
Walker, Volney Denchar	ME		* †	Cicero
Walkerly, Margaret Magdalene	Com (SS)	95½	* †	Champaign
Wall, Harriet Edythe	LAS	110	* †	Staunton
Wallace, Edgar Dearborn	LAS	114½	* †	Chicago
Wallace, Edwin	Agr		* †	Assumption
Wallace, Elwin	Agr		* †	Assumption
Wallace, Frank Maltby	Com		* †	Chicago
Wallace, Paul Samuel	SS	40		Savanna
Wallace, Samuel Haywood	Agr	27	* †	Oak Park
Wallage, Stanley Tiffin	SS	138½		Paris
Wallis, Mrs. Grace Hite	SS	8		
Wallis, May Avona	LAS		* †	Centralia
Walmer, Joseph Charles	Com	99	* †	Cairo
Walrath, Abigail Jessie	SS	5		Lebanon
Walser, Stephen Albert	Agr	109	* †	Brooklyn, New York
Walsh, John Edward	EE	119	* †	Peoria
Walsh, Leo Bernard	Agr	104	* †	Rantoul
Walsh, Richard Leon	CE		* †	Rantoul
Walsh, William Celestine	Com		* †	Mattoon
Walter, Fred	Agr	35½	* †	Arenzville
Walter, Kenneth Hubert	LAS		* †	Bremen, Indiana
Walters, Prentice Therman	SS	135½		Macomb
Walton, James K, Jr.	Agr	106½	* †	Anna
Walworth, Stanton Eugene	Agr	66	* †	Urbana
Wamsley, Adalaid May	HSAgr (SS)sp	67	* †	Quincy
Wamsley, John Henry	Com		* †	Tuscola
Wanderer, Elizabeth Catherine	HSLAS		* †	Oak Park
Wang, Chin Wu	SS	43½		China
Ward, Andrew Lewis	LAS		* †	Oak Glen
Ward, Arthur Andrew	EE	31	* †	Oak Glen
Ward, Cecilia Blair	HSLAS	66	* †	Urbana
Ward, Charlotte Baldwin	HSLAS		* †	Urbana
Ward, Dan Putnam	Com		* †	Marshalltown, Iowa
Ward, Herbert Benjamin	Agr	26	* †	Geneseo
Ward, Janet	LAS	62	* †	Chicago
Ward, Justus Conrad	Chem		* †	Clinton
Ward, Mary Helen	HSAgr	33	* †	Sterling
Ward, Mary Winifred	LAS	66	* †	Saybrook
Ward, Ralph Waldo	SS	6½		Worcester, Massachusetts
Ward, Raymond Ford	Com		* †	Normal
Ward, Raymond Lee	Com	33	* †	Bement
Ward, Victor	CE	27	* †	El Paso
Warden, Ida Elizabeth	SS			Wellsburg, West Virginia
A.M. (Wooster Coll.) 1913				
Ware, Gay Hollenbeak	Agr sp	8	* †	Barry
Ware, Manierre Barlow	Agr	105	* †	Chicago
Warford, David Arthur	Law	74	* †	Elizabethtown
Warinner, Mabel Straube	SS	59½		Urbana
Warmolts, Cornelia Sara	LAS	56	* †	Oregon
Warmolts, Lambertus, Jr.	LAS (SS)	102½	* †	Oregon
Warner, Robert Leman	Law	15	* †	Dixon
Warren, Daniel Edwin	Agr	107	* †	Belvidere
Warren, Dorothy	HSLAS	35	* †	Watseka
Warren, Harry DeHaven	ME		* †	Moline
Warren, Harry Theodore	Chem	17	* †	Centralia
Warren, Anna May	LAS	101	* †	Mansfield
Warren, Milton Willard	Agr		* †	Mansfield
Warren, Ralph Rowe	CE	63	* †	LaSalle
Warren, Robert Clarke	Agr		* †	LaGrange
Wascher, Herbert Frederick	Agr	34	* †	Champaign
Washburn, James William	MSE	98	* †	Lenox Dale, Massachusetts
Washburn, Raymond Allen	LAS	14	* †	Kewanee
Washler, Orla Virgil	SS	8		Union City, Indiana
Wasson, Loran Arthur	Com	37		Harrisburg
Waterbury, Harry Bremner	Agr		* †	Chicago
Waterman, Louise Hale	LAS	95	* †	Chicago
Waterman, Mary Elizabeth	LAS	120	* †	Galesburg
Waterman, William Layton	CE		* †	Chicago
Waters, George Gerald	EE	32	* †	Chicago
Watson, Harry Francis	LAS (SS)	95	* †	Granite City

Watson, Jane C	SS			Champaign
Watson, Ray Marcus	Agr	102	* †	Cobden
Watson, Raymond Vance	Agr		* †	Clinton
Watt, Glendora	Mus sp		* †	Champaign
Watt, Margaret Louise	LAS		* †	Winchester
Watt, Russell A	AE	66	* †	Champaign
Watts, Amos Holston	LAS	32	* †	Nashville
Watts, Helen Mae	LAS	32	* †	Urbana
Wayne, Forrest Howells	Com		* †	Orion
Weart, James Garrison, Jr.	Agr	38	* †	Winnelka
Weasel, Nellie Wilma	LAS		* †	Pesotum
Weaver, George	MdP	2	* †	Cumberland, Iowa
Weaver, Lillian Ruth	LAS	117	* †	Cumberland, Iowa
Webb, Brent Girdler	Arch	55	* †	Louisville, Kentucky
Webb, Elizabeth	LAS		* †	Farmer City
Webb, Haldeman Adair	Com		* †	Chicago
Webb, Katherine Ann	LAS	31	* †	Chicago
Webber, Albert G., Jr.	Law	57	* †	Decatur
Webber, Robert Alfred	ChE	63	* †	Urbana
Weber, Frederick Gottlieb	Agr	25½	* †	Tower Hill
Weber, Leonard Fred	MdP	59	* †	Buckley
Weber, Pauline Barbara	LAS		* †	Olney
Webster, Frederick Farrar	Agr	99½	* †	Oberlin, Ohio
Webster, Gladis Gilbert	Agr	99	* †	Washington, Indiana
Webster, Lewis Selwyn	MSE	52½	* †	Barlow, Florida
Wedge, Leslie B	Com	65	* †	Kewanee
Weeks, Charles Horace	Com	68	* †	Joliet
Weems, Charles Lee	LAS	80	* †	Quincy
Weenink, Ruth Antionett	HSAgr	102	* †	Dillon, Montana
Weeter, Mabel Slout	LAS		* †	Williamsport, Pennsylvania
Weeter, Nelle Mae	LAS (SS)	37	* †	Rimersburg, Pennsylvania
Wehrle, Thomas Henry	Com	31	* †	Carmi
Weikert, Earl Harper	Agr sp		* †	Galesburg
Weil, Ruth Carmen	LAS	98	* †	Oelwein, Iowa
Weillepp, Laura Elizabeth	HSLAS	101½	* †	Decatur
Weinberg, Elizabeth	HSAgr	100	* †	Rushville
Weingarten, Helen Henrietta	LAS	23	* †	Champaign
Weinshank, Harry	ME	30	* †	Indianapolis, Indiana
Weir, Amy Azalea	LAS	62	* †	Marshall
Weir, Mary Jane	HSAgr		* †	Marshall
Weir, Pearl	HSAgr	66	* †	Marshall
Weise, Nicholas George	Agr	60	* †	Chicago
Weiser, Albert Luther	SS			Grimes, Iowa
Weisiger, George Bates	SS	98		Homer
Weiss, John Nelson	Agr		* †	Geneseo
Weiss, Marion Virginia	LAS	111	* †	Champaign
Weiss, Theodore Frank	ChE		* †	Champaign
Weissman, Joseph	Agr		* †	Chicago
Weitknecht, Helen Bernice	LAS		* †	Mitchell, Indiana
Welch, Charlotte Bruce	LAS		* †	Highland Park
Welch, Frank Joseph	LAS		* †	Moline
Welch, Mary Mildred	LAS		* †	Highland Park
Welch, Stanley Edwin	Com			Chicago
Welch, Vyrra	SS			Urbana
Welensky, David Arthur	CE		* †	Chicago
Welge, Bertha Henriette	SS			Hillsboro
Welker, Leo Edward	SS			Colfax, Iowa
Weller, Herbert Clay	LAS	30½	* †	Hindsboro
Wells, Harry Andrew	Agr	97	* †	Dalton, Pennsylvania
Wells, Le Roy Myron	Agr			Torrington, Connecticut
Welsh, St. Clair Duval	CE		* †	Des Moines, Iowa
Welty, David Charles	Agr	98	* †	Amboy
Weltmer, James Horace	SS	8		Nevada, Missouri
Wenke, Vernon Arthur	Com	29	* †	Geneseo
Wensley, Lucy Drinkwater	HSLAS	31	* †	Cleveland, Ohio
Wenz, Carolyn Louise	SS	119½		Paris
Wenzlaff, Solomon Henry	LAS	35	* †	Yankton, South Dakota
Wenzlaff, William Bradford	Com		* †	Armour, South Dakota
de Werff, Henry August, B.S., 1914	Agr		* †	Farina
Werner, Harry William	ME		* †	Blue Island
Wernstler, William Joseph	Agr	27½	* †	Chicago
Wert, Catherine Selma Leotta	HSAgr		* †	Kendallville, Indiana
Wertheim, Edgar	SS	8½		
Westcott, Florence May	SS	7½		Chillicothe
Wesley, Curtis Elroy	Agr		* †	St. Louis, Missouri
Wesseling, Amalie Elizabeth	LAS	22	* †	St. Louis, Missouri
West, Estol Kenneth	SS			Mt. Vernon
West, Linnie Minnie	HSLAS (SS)	98	* †	Watseka
West, Lloyd Alvin	EE	62½	* †	Yates City
West, Marion Isabel	HSAgr	60	* †	Loda
Westbay, James Herron	RME	115	* †	Monett, Missouri
Westbrook, Harold William	Com	56	* †	Centralia
Westenhaver, LeRoy John	MinE	70	* †	Chicago
Westerman, Richard Wilbur	LAS		* †	Quincy
Westfield, Norman Elmer	Agr		* †	Chicago
Weston, Jessie Beatrice	Lib	38	* †	Urbana

Wetherell, Edwin Harry	Arch	48	* †	Des Moines, Iowa
Wetzel, Gilbert John	LAS		* †	Chicago
Whalin, Oren Leslie	Agr	61	* †	Rose Hill
Wham, Benjamin, A.B., 1915	Law	162	* †	Carter
Wharton, Wayne Thompson	Com	30	* †	Moline
Wheat, Marcell Henry	Com	34	* †	Chicago
Wheat, Orvie Albert	Arch		* †	Deland
Wheeler, Adelaide Cynthia	HSAgr	100	* †	Laurens, Iowa
Wheeler, William Erastus, Jr.	Law	120	* †	East St. Louis
Wheelhouse, Elizabeth Lux	HSLAS	72	* †	Decatur
White, Agnes Chloe	LAS	96	* †	Marion
White, Catherine Neil	LAS (SS)	40	* †	Urbana
White, Harold Hartwell	Com	68	* †	Chicago
White, Helen Wheeler	LAS		* †	Chicago
White, Homer	LAS		* †	Pawnee
White, Leila Olive	LAS		* †	Rockford
White, Marion Kingsley	HSAgr	99	* †	St. Joseph, Missouri
White, Merle Marie	HSAgr	20	* †	Urbana
White, Milton Worley	Agr	43	* †	Oxford, Ohio
White, Russell Sherman	Com	60	* †	Chicago
White, William Wallace	Com	14	* †	Chicago
White, Winifred Elizabeth	LAS (SS)	66	* †	Chicago
Whitelaw, Charles Hugh	Com		* †	Seattle, Washington
Whiteside, Merrill Wesley	MdP		* †	Eldorado
Whitford, Hobart S	Agr	29	* †	Golden
Whiting, Vivian Justina	HSLAS	101	* †	Urbana
Whitman, Beulah Mae	HSLAS	40½	* †	Cameron
Whitman, George Bruington	Agr	52½	* †	Cameron
Whitmire, Laura Gwendolen, A.B., 1914	SS			Urbana
Whitney, Harold Bruce	CE	36	* †	Silver Spring, Maryland
Whitney, Joseph Lafeton	Com	101	* †	Oak Park
Whitney, Leland LeRoy	Com		* †	Marion, Ohio
Whitney, Leonard Hilliard	MinE	111	* †	Downers Grove
Whitney, Merlyn Ruloff	Com	81	* †	Marion, Ohio
Whitson, Herman Ansel	MdP	56	* †	Rushville
Whittemore, Katherine	HSAgr		* †	East Aurora, New York
Whittemore, Kenneth Stoddard	Com	67	* †	East Aurora, New York
Whitten, George Arion	LAS		* †	Urbana
Whitten, Jennie Alma	LAS (SS)	91	* †	DeKalb
Whitten, Mabel Doris	LAS (SS)	69	* †	DeKalb
Whitten, Phil R	Mus sp		* †	Urbana
Whittington, Ray Norton	Agr	33	* †	Benton
Whittum, Florence Lucille	LAS	36	* †	Herscher
Whitver, Howard Clifford	Com (SS)	71½	* †	Urbana
Wible, Tom K	Com	30	* †	Mason City
Wieboldt, Anna Ernestine	LAS	73	* †	Chicago
Wiedemann, Charles Phillip	Agr		* †	East St. Louis
Wiedemann, Newell Evert	Arch	61	* †	East St. Louis
Wien, Julius Harry	EE	67	* †	Chicago
Wiersema, Henry	EE	16	* †	Fullon
Wiggins, William Kelley	EE	21	* †	Anna
Wiggins, Rolla Elbert	SS	8½		Goreville
Wight, Edith Marian	LAS	66	* †	Chicago
Wilkoff, Ruth Isabel	LAS	65	* †	Chicago
Wilber, Harold Courtney	Com	67	* †	Potomac
Wilbourne, Willie Coakly	LAS		* †	Olive Branch
Wilder, Charles Lucas	ME	29	* †	Peoria
Wildermuth, Joe Henry	Arch	36	* †	Gary, Indiana
Wiles, Bertha Harris	LAS	100	* †	Minatare, Nebraska
Wiley, Harry Houghes	CE	103	* †	Sioux City, Iowa
Wiley, Kathryn Grace	LAS sp		* †	Aurora
Wiley, Russel Warren	AE	37	* †	Chicago
Wiley, Sumner Conklin	LAS		* †	Earlville
Wiley, Wallace Faris	AE	36	* †	Anna
Wilford, Robert Nicholas	Agr	100	* †	Aurora
Wilkins, Ernest Jesse	LAS	69½	* †	St. Louis, Missouri
Wilkins, Ruth Elizabeth	SS	7		Metropolis
Wilkinson, Cecil Herbert	Agr		* †	Mt. Carmel
Wilkinson, Porter Augustus	Com		* †	Bethany
Wilkinson, Scott Jackson	LAS		* †	Bethany
Wilkinson, Wardell	Com	67	* †	Chicago
Willard, Ruth Frances	LAS		* †	Decatur
Willett, Alfred P	LAS		* †	Orono, Maine
Willett, Donald Biggar	Com	17	* †	Oak Park
Willey, Gilbert Stewart	Agr (SS)	58½	* †	Warren, Minnesota
Williams, Bertha	SS			Green Valley
Williams, Chester Albert	Arch	106	* †	Sterling
Williams, Earle Joubert	MSE		* †	Cobden
Williams, Eugene Charles	Com	31½	* †	Sterling
Williams, Frieda Katharine, A.B., (Indiana University), 1915	Lib		* †	Darlington, Indiana
Williams, George Alfred	LAS	63	* †	Peoria
Williams, Grace Ethel	LAS	47	* †	Wauseka
Williams, Harold Simpson	LAS		* †	Louisville
Williams, Helen Jackson	LAS	72	* †	Streator

Williams, Irene	LAS	56	* †	Ravanna, Missouri
Williams, John B.	Com	60	* †	Alla
Williams, John Milton	LAS	68	* †	Dixon
Williams, Norman Baldwin	ME		* †	Streator
Williams, Oswald Howell	SS	29		Granite City
Williams, Paul Albert	EE		* †	Freeport
Williams, Raymond Clendenin	LAS		* †	Ata
Williams, Walter Higgins	Agr		* †	La Moille
Williams, William Dudley	Agr		* †	Franklin, Arkansas
Williamson, Harlan Aretus	Com	60	* †	Jacksonville
Williamson, Jessie Christine	Mus		* †	Edwardsville
Williamson, Marian	LAS		†	Champaign
Williamson, Myra Marie	SS	81		Tuscola
Williamson, William Richter	Com		* †	Lexington
Willison, Genevieve Irene	Com		* †	Chicago
Willits, Ward Maurice	Com (SS)	68	* †	Harvey
Willson, Florence Margaret	HSLAS		* †	Bonaparte, Iowa
Willson, Harold Edwin, B.S., 1916	MinE (SS)		* †	Baltimore, Maryland
Wilson, Allen Center	CE	111	* †	La Grange
Wilson, Anna Marie	LAS (SS)	6	* †	Princeton, Missouri
Wilson, Carna Ethel	LAS		* †	Chicago
Wilson, Charles Roger	LAS		†	Carbondale
Wilson, Clarence Leon	Med	65	* †	Carbondale
Wilson, Donald Eugene	LAS	17	* †	Rossville
Wilson, Donald H.	SS	4		Catlin
Wilson, Gail Jennings	LAS		* †	Champaign
Wilson, Grover C.	EE	109	* †	Walnut
Wilson, Howard Thornton	MaP		* †	McNabb
Wilson, Jennie Ethel	SS	4		Los Angeles, California
Wilson, Kenneth Leon	Agr	7	* †	Atwood
Wilson, Lula	SS	5		Paris
Wilson, Lyle Avery	CE	74	* †	Hamburg
Wilson, Lyndon Rutledge	EE (SS)	50	* †	Chicago
Wilson, Ralph Oliver	Agr	57	* †	McNabb
Wilson, Ray Walker	Com	70	* †	Princeton, Missouri
Wilson, Stephen Askew	LAS		* †	Chicago
Wilson, Mrs. Teresa M.	Mus sp		* †	West Liberty, Iowa
Wilson, Willard Oliver	Com	84	* †	Wilmot, Mississippi
Wilson, William Paterson	LAS	65	* †	Coal City
Wilson, Winifred	LAS	87	* †	Atwood
Wiltsee, Beatrice Lenore	HSAgr	26	* †	Marion, Indiana
Winchester, Bessie Frances	LAS		* †	Urbana
Windle, Clifford Cover	Agr	67	* †	Mt. Morris
Windmiller, Anna Vivien	LAS	24	* †	Chicago
Wingate, Ray Palmer	Com		* †	Avon
Winkelmann, Roland Earl	Law	71	* †	Bellville
Winkler, Ross Wayne	Agr	64½	* †	Newman
Winn, George Pickrell	EE	88	* †	Kansas City, Missouri
Winn, Glen Hollis	Com sp	23	* †	Chicago Heights
Winship, Mary Alameda	LAS	65	* †	Tiskilwa
Winslow, Lawson Tracy	Agr	33	†	Lewiston, Montana
Winter, Elijah	Agr	76	* †	Annawan
Wintermute, Imogene, A.B., (Ohio Wesleyan), 1911	Lib		* †	Delaware, Ohio
Winters, Lawrence Morse	Com	69	* †	Chicago
Winters, Nina Lucille	Mus	36	* †	Kansas
Wirt, Verna Edna	HSLAS	107½	* †	LeRoy
Wirth, Fremont Philip	LAS (SS)	84	* †	Waterloo
Wirth, Walter Valentine	ChE	109	* †	Mt. Carmel
Wise, Eleanor Lucille	HSLAS		* †	Cerro Gordo
Wise, Opal	LAS	24	* †	Champaign
Wisegarver, Elizabeth Pauline	LAS	100	* †	DeLand
Wisegarver, George Elijah	Com		* †	DeLand
Witbeck, Helen Elizabeth	LAS	61	* †	Belvidere
Witchell, Barton Edward	EE	74	* †	Vermont
Withers, William Price	LAS		†	Ashland, Wisconsin
Witherspoon, Clyde Finley	SS	51		Champaign
Witherspoon, Lura Jane	SS	4		Danville
Withrow, Frances Louise	LAS	31	* †	Springfield
Witt, Roy Bryan	Com		* †	Mendon
Witters, Josef Edward	LAS	60	* †	Grand Rapids, Michigan
Witty, Horace Lec	Agr		* †	Pleasant Plains
Woelbeling, William Kenneth	EE	85	* †	Chicago
Woerman, Lillian Honens	HSLAS (SS)	63	* †	St. Louis, Missouri
Wold, Ingal Ensor, B.S., 1916	SS	136		Dixon
Wold, Leaman Archer	Agr		* †	Dixon
Woleben, Fred Alvin	Agr (SS)	27	* †	Marengo
Woleben, Wilbur Townsend	Agr	66	* †	Chicago
Wolf, Elsa Caroline	Agr sp	31	* †	Urbana
Wolff, Aline Jeannette	HSLAS	67	* †	Urbana
Wolcast, Dora Emma	Mus sp		* †	Danforth
Wolcast, Helen Violet	LAS		* †	Danforth
Wolter, Herbert F.	Agr	68	* †	Danville
Wong, Marvin Yik Hsueh	Com	49	* †	China
Wong, Yuk Man	ME	32	* †	San Francisco, California
Woo, Yin	Com	115½	* †	China

Wood, Alger H	SS			Alma, Michigan
Wood, Benjamin	Com	25	* †	Independence, Missouri
Wood, Catherine	SS	8		Springfield
Wood, Helen Louise	LAS	31	* †	Pekin
Wood, Immo Isaac	LAS			Augusta
Wood, Lorin Alfred	SS	6		Wagoner
Wood, Paul Washington	Arch	17	†	Carrollton
Wood, Wilbur Stuart	MdP		* †	Decatur
Woodcock, Helen Ernestine	HSLAS	95	* †	Ogden, Utah
Woodham, George Elmer	Agr	32	†	Grayville
Woodham, Harry, A.B., 1907	Agr		* †	Albion
Woodroffe, Louise Marie	LAS	94	*	Champaign
Woodrow, Raymond Burns	Agr	94	*	Green Valley
Woodruff, Arthur Eugene	Com	37½	†	Champaign
Woods, Andrew Chevalier, Jr.	ME	106	*	Chicago
Woods, Frances Octavia	LAS	78	*	St. Louis, Missouri
Woods, Grace Blackledge	LAS	24	*	Sterling
Woods, Lenna Adair	LAS	47	*	Champaign
Woods, Lois May	Lib	33	*	Berkeley, California
Woods, Ralf Charles	Agr	99	*	Evanston
Woods, Ray James	Com	100	*	Evanston
Woods, Robert	Agr		* †	Chattanooga, Tennessee
Woodward, Arthur Clinton	SS	7½		Taunton, Massachusetts
Woodworth, Paul Merrylees	Agr sp		†	Chicago
Woody, Gladys Marie	LAS		* †	Urbana
Woodyatt, Harold	Com	96½	*	Dixon
Woolford, Robert Hugh	MdP	29		Arcola
Woolford, Samuel Ward	LAS	25	*	Terre Haute, Indiana
Wooley, Russell Brooks	Com	6	†	Champaign
Woolman, Richardine, A.B., 1916	SS	133		Urbana
Worcester, Richard Ladd	Law	59	*	Roodhouse
Worley, Jessie Cassandra	LAS		* †	El Paso
Worner, Henry Harold	Agr	66	*	San Jose
Worrell, Joseph Loyd, B.S., 1913	LAS		†	Bowen
Wrede, Bertram Alfred	CE	101	†	Chicago
Wright, Donald Townsend	ChE	72	*	Chicago
Wright, Emma Parks Deal	SS		†	McLean
Wright, Frances Madge	Mus		* †	Champaign
Wright, Francis Marion	ME	26	†	Urbana
Wright, George Hoyle	ChE		* †	Chicago
Wright, Joseph William	CerE	107	*	Herscher
Wright, Kathleen	HSAgr		* †	Brocton
Wright, Mildred Winifred	Agr	62	*	Okauchies, Wisconsin
Wright, Roberta, A.B., 1914	SS	131		Champaign
Wright, Theodore Brooks	Agr		†	Champaign
Wright, William Edson	LAS (SS)	62	*	Gifford
Wright, Willie Zeno	LAS (SS)	34	*	Paris
Wrobke, Dewey Frederick	Com		* †	Maywood
Wroby, Norman William	ChE		* †	Chicago
Wu, Wei Yeh	EE	144½	*	Hunan, China
Wuerker, Adolph Kirsch	Com	74	*	Allon
Wuerstenbaecher, Harry Edward, Jr.	Arch	36	†	St. Louis, Missouri
Wuerzinger, Ella Marie	LAS	31	*	Chicago
Wyatt, Harold Charles	RCE	36½	*	Chicago
Wyne, Clarinda Jean	LAS	26½	*	Vermont
Wyne, Walter Louis	Com	84	*	Vermont
Yackey, Otilia Emma	HSLAS	60	*	St. Louis, Missouri
Yaeger, Edgar Gabriel	SS	8		New Baden
Yale, Charles Ernest	Agr		* †	Aurora
Yamamoto, Kohachiro	LAS		†	Japan
Yamashita, Narahei	Com		*	Osaka, Japan
Yang, Tsao Shing	EE	123½	*	Washington, D. C.
Yates, Howard Noble	Agr		*	Buffalo
Yeager, Floyd Hervey	LAS		†	Douglas, Arizona
Yeager, Harold Caldwell	Com		*	Maywood
Yeager, Leland Edward	Com	71	*	Maywood
Yeazel, Lloyd Homer	LAS	38	*	East Lynn
Yee, Gan Chyo	ChE (SS)	105½	*	Hunan, China
Yelton, Lynn Boyd	LAS		*	Ridgefarm
Yerington, John George	Agr	66½	*	Watervliet, Michigan
Yindrock, Leo Edwin	MinE	77	*	Chicago
Yockey, David Edwards	Com		*	Monticello
Yockey, Merle Albert	Com	69	*	Beardstown
Yokono, Tamisaburo	EE		*	Honolulu
Yonkman, George Earl	CE	28	†	Fulton
York, Reginald Allen	EE		*	Chicago
Yoshikawa, Yoshio	EE		*	Honolulu
Yost, Charles Frank	Com sp		*	South Bend, Indiana
Young, Arthur Tatarian	Com	106	*	Chicago
Young, Florence	LAS		*	Newman
Young, Maurice	Agr		*	Newman
Young, Philip Page	Com	34	*	Chicago
Youngblood, Alta Miriam	LAS	27	*	Hoopeston
Youngman, Wilbur Hughes	Agr	37	*	Santa Paula, California
Yount, John Joseph	Com	29	*	Middletown, Indiana

Yü, Lan	Arch		* †	Kiang-Si, China
Zahradka, Jerome George	ME	61	* †	Chicago
Zaleski, Jan Paul	Agr	99	* †	Zalesie, Poland
Zaleski, John Thaddeus	CerE		* †	Chicago
Zaring, Ivan Armon	SS			Scottsburg, Indiana
Zearing, Dorothy Anne	LAS		* †	Ladd
Zehr, George Andrew	EE	66	* †	Washington
Zeiders, Emil Philip	Agr		* †	Mansfield
Zelehoffer, Edna Lila	SS			Leroy
Zeller, Lawrence Willard	Com	69	* †	Brazil, Indiana
Zeppenfeld, Eugene William, B.S., 1914	SS	136		St. Louis, Missouri
Zerby, Rayborn, Lindley	SS	2		Eureka
Zettlmeisl, Irmgaard	HSLAS		†	Laura
Ziegenhagen, Walter	AE	96	* †	Oak Park
Ziegler, Arthur William	EE		* †	East St. Louis
Ziegler, John Wesley	ME	37	* †	East St. Louis
Zieroth, Edward Henry	Agr	33	* †	Chicago
Zimbelman, Frank Arthur	EE		* †	Aurora
Zimmerman, Garnet Bernice	LAS		* †	Oakland
Zimmerman, Harry Gustav	LAS	33	* †	Peru
Zolotkoff, Hyman Jacob	LAS	31	* †	Chicago
Zuckerman, Benjamin Selman	Arch	36	* †	Chicago

COLLEGE OF MEDICINE

Name	Year	Residence
Allen, George Albert	1	Clinton
Anderson, Richard Elseph, B.S.	3	Lynn Center
Armstrong, Clifford Oakley	2	Bloomington
Armstrong, Victor Scott	4 (SS)	Sioux Falls, South Dakota
Arnquist, Andrew Samuel	1	New Richmond, Wisconsin
Ascherman, Elmer Nathaniel	1	Chicago
Ashley, Rea Ernest	1	Denver, Colorado
Baker, George Newton	1	Thornburg, Iowa
Baker, William Asa	4	Richmond, Maine
Baxter, Lewis Thomas	1	Astoria
Beilin, David Solomon	2	Chicago
Benjamin, Harry Webb	4 (SS)	Chillicothe
Berge, Maurice Aurelius	4 (SS)	Ransom
Blair, Edgar Theron	1	Chandlerville
Brown, James L. Jr.	1	Peoria
Brown, Howard Storm, A.B., Ph.C., M.S.	3	Norman, Oklahoma
Brown, Lyle Leland	3	Crookston, Minnesota
Byrnes, William Armstrong	4 (SS)	Minneapolis, Minnesota
Cann, LeRoy R.	1	Chicago
Capek, Ladislav V.	1	Chicago
Carothers, Herbert Chapman	4 (SS)	Chicago
Carpenter, Fred Elton	3	Reasnor, Iowa
Cecil, Eugene Randolph	3	Chicago
Champlin, Howard William	1	Chicago
Clarke, George Edward	1	Noblesville, Indiana
Cline, Gerald Morris	1	LeRoy
Cohen, Carl	1	Atlanta
Colbert, Carter Neville	3	Racine, Wisconsin
Connell, Walter Joseph	2	Farley, Iowa
Cottle, Maurice Henry	1	Chicago
Craddock, John William	1	Chicago
Crawford, Woodruff Lynden	1	Pontiac
Curl, Howard E, A.B.	4	Osborne, Kansas
Curtis, William	1	Chicago
DaCosta, Harold Fonseca	1	Chicago
Dame, Louis	4 (SS)	Chicago
Dana, Winfred Peterson	2	Tacoma, Washington
Diller, Harold Francis	1	Rantoul
Donovan, Edward Vincent	1	Chicago
Douglass, Albert Eugene	1	Logansport, Indiana
Dowling, John Joseph	1	Chicago
Draper, Laurence Francis	1	Clinton
D'Vorak, Albert Charles, B.S.	3	Kewaunee, Wisconsin
Dyer, Robert Edward	2	Chicago
Dysart, Benjamin Quincy, B.S.	3	Granville
Eby, Ida	2	Columbus Grove, Ohio
Ehrlich, Maxmilian Charles	1	Chicago
Eisler, Edwin Roy	2	Minneapolis, Minnesota
Elvidge, George	1	Lone Rock, Iowa
Engerman, Max	1	Chicago
Far, Shakir Elias	4	Palestine, Turkey
Faxon, Donald Eugene	1	Sandwich
Fetherston, James Edward, B.S.	3	Edmonton, Alberta
Fisch, Max Eleazar	2	Chicago
Fischer, Walton Rathfon	1	Chicago
Ford, Hanby Lewis	1	Fiat Rock
Fox, Nathan Henry	2	Chicago

Francisco, Sixto Acosta	3 (SS)	Batangas, Philippine Islands
Fraser, John Howden	2	Monticello, Iowa
Furth, George Mathew	1	Chicago
Gabriel, Carson King	1	Payson
Gernon, Gerald Deland	1	Kankakee
Gilchrist, Virgil Martha, B.S.	4 (SS)	Moscow, Idaho
Goldblatt, Louis	1	Chicago
Golden, Waldo Emerson, A.B.	4 (SS)	Champaign
Golub, Samuel	4 (SS)	Gitomir, Russia
Gramer, Edward Phillip	1	Chicago
Granger, Wayne Bernard	2	Phillipsburg, Kansas
Greenfield, Jacob Rachmiel	2	Brooklyn, New York
Greenwood, Ray Ellsworth	1	Kankakee
Grissom, Calton Barney	4	Syracuse, Kansas
Groos, Louis Peter	2	Escanaba, Michigan
Gwin, Ethel Anna	1	Modesto, California
Hall, Alice Kassie, A.B.	2	Chicago
Hanson, Harlow James, B.S.	2	Hulchinson, Minnesota
Hardinger, Paul Milton	2	Gays
Hartwell, Basil Orman	4 (SS)	Mayssville, Missouri
Hayes, Marshall Daniel	1	Chicago
Heller, Henry Frederick	1	Des Plaines
Henderson, Arthur Justin	2	Lake Mills, Iowa
Hilbert, John William	2	Chicago
Hildebrand, Gustav John	4	Sheboygan, Wisconsin
Hocum, Harold	3	Minneapolis, Minnesota
Hospers, Anthony	1	Pella, Iowa
Hottman, Herbert Harry	1	Dubuque, Iowa
Huber, Paul Robert, Ph.G.	3	Chicago
Hughart, Harold Hershall	4 (SS)	Pocatello, Idaho
Hyatt, Emory G	1	Macon, Missouri
Iverson, Louis	4 (SS)	Badger, Minnesota
Irvine, George Burgess	1	Lake City, Minnesota
Irwin, Charles Edward	3	Belle Plaine, Iowa
Jeffrey, James Robinson, Jr.	4 (SS)	Nortonville, Kansas
Jelinek, Joseph	1	Chicago
Jensen, Ingvald	1	Chicago
Jelliffe, Martin Bushnell	4 (SS)	Mansfield, Ohio
Johnson, John Walter	1	Chicago
Jones, Orion Chester	3	Redmon
Kaiser, Karl John	1	Aurora
Karatz, Morris Baron	4 (SS)	Minneapolis, Minnesota
Keckler, Ethel Leona	1	Milledgeville
Kelly, Everett Clyde	2	Chillicothe
Kipnis, Ben Zion	2	Chicago
Koptik, George, B.S.	3	Chicago
Lambertson, Everett Raymond	1	Murray, Iowa
Langlois, Harvey Louis, A.B.	4 (SS)	Kankakee
LaRocca, Joseph	1	Chicago
Leiserwitz, Samuel Brody	4 (SS)	Herscher
Leonard, Ruth	1	Chicago
Levinson, Samuel Azor	2	Chicago
Lieberman, David Lionel	3	St. Joseph, Missouri
Lovellette, LeCount Rochambeau	4 (SS)	Chicago
Lutter, John	1	Chicago
McCoy, Henry James	4 (SS)	Amboy
McDermott, Raymond Adam	2	Batavia
McGrath, Floyd Lawrence	1	Savanna
McGuinness, Hugh Stanley	2	Chicago
Malcolm, William Alexander	2	Higbee, Missouri
Marcus, Morris	2	Chicago
Mars, Hartley Parnham, Ph.C.	4	St. Paul Park, Minnesota
Martin, Leon Wade, Ph.C.	4	Plainwell, Michigan
May, Edwin Ralph	4	Clinton
Meggers, Edward Charles	4 (SS)	Walker, Iowa
Mercey, Raymond Jones, B.S.	3	St. David
Merrill, Charles Leo	1	Richmond, Utah
Metcalf, G Stanley	1	Janesville, Wisconsin
Meyers, Carl Heinrich	1	Chicago
Miller, Myron Herbert	1	Chicago
Morin, Oswell	2	Danville
Moulton, Gertrude Evelyn, A.B.	2	Reva, South Dakota
Murphy, Thomas Benton, B.S.	3	Oakesdale, Washington
Mustell, Robert Rowlaime	2	Cashmere, Washington
Naroditsky, Samuel	1	Chicago
Noonan, William James	1	Elma, Iowa
Norwood, Lincoln Harrison	4 (SS)	Bluejacket, Oklahoma
Ochs, Clara Marie	3	Oak Park
Ochs, Milton Marquette	1	Oak Park
Oliver, Henry Earle	2	Sigourney, Iowa
Olson, Albert Eric	1	Duluth, Minnesota
Olson, Clarence Willard	4 (SS)	Escanaba, Michigan
O'Malley, Francis Xavier	1	Chicago
Orcutt, Arthur Henry, A.B., B.S.	3	Arcola
Ostler, David Elmer	1	Salt Lake City, Utah

Parker, James William, Jr.	1	Peoria
Paskind, Harry Arthur	1	Chicago
Pauker, Norbert	1	Chicago
Pelc, Joseph	1	Chicago
Perkins, Chester Henry	3	Temple, Oklahoma
Peterson, Joe Oliver	2	Princeton, Minnesota
Petrass, Andrew	1	Chicago
Pickoff, Fred, A.A.	1	Chicago
Piaseczynski, Francis	3	Kamotka Str., Austria
Pilot, Isadore	4 (SS)	Chicago
Propst, Duane Willard, A.B.	2	Springfield
Raab, Raphael August	1	Chicago
Rackliffe, Thomas Thayer	1	St. Joseph, Missouri
Radabaugh, Rudolph Charles, B.S.	4 (SS)	Zumbro Falls, Minnesota
Ramos, Rafael Alpuche	4 (SS)	Campeche, Mexico
Ray, James Henry	4 (SS)	Alexander City, Alabama
Rieke, Arthur George	3	Blairstown, Iowa
Roach, Lloyd Edward	1	Tama, Iowa
Robinson, Raymond Dudley	1	Chicago
Rogers, William Turner	2	Hume
Rosenburg, Harry Louis	2	Chicago
Royster, Hallace Rector	4 (SS)	Argo
Rubright, Franklin LeRoy	1	Emerson
Ruppenthal, Armond	1	Brillion, Wisconsin
Salpas, Spero	4 (SS)	Chicago
Sanders, George Edward	4 (SS)	Champaign
Sapper, Herbert Victor Louis, B.S., A.B.	4	Chicago
Sauer, Francis Joseph	4 (SS)	Chicago
Schachter, Joseph Andrew	2	Chicago
Schelm, George William, B.S.	3	Denison, Iowa
Schmidt, Elmer Jacob	2	Seymour, Wisconsin
Schmidt, Herbert	1	Chicago
Schneider, Herbert G	1	Chicago
Schroeder, Paul Louis	2	Nashville
Sered, Harry	4 (SS)	Milwaukee, Wisconsin
Sexsmith, Edna Kathryn, A.B.	3	Greenfield, Iowa
Shurtleff, Raymond S	2	Cuba
Sladek, Edward Frank, B.S.	3	Chicago
Slaughter, Mary Gertrude (Mrs.)	1	Chicago
Small, James Craig, B.S.	4 (SS)	Chambersburg, Pennsylvania
Smith, Clayton Sidney, Ph.D.	1	Chicago
Sponder, Joseph	1	Chicago
Stein, Michael	2	Chicago
Stevenson, James	4 (SS)	Chicago
Stone, Theodore	1	Chicago
Stromberg, William Benjamin	1	Chicago
Sutch, Armand Kredel	4	Chicago
Sykes, Newman Marion, B.S.	4	Chicago
Szwajkart, Adam Leo	4 (SS)	Decatur, Alabama
Taylor, Thaddeus, A.B., M.D.	sp	Chicago
Tanquary, John Hansford	2	Natchitoches, Louisiana
Tharp, Herbert Milton	2	Bellmont
Thomas, James Russell	4	Reasnor, Iowa
Thompson, Fred Rush	1	Minneapolis, Minnesota
Vaughn, Edward Perry	2	Cedarville
Velitchkoft, Metodi	2	Minneapolis, Minnesota
Vrtiak, Emil	2	Bulgaria
Waldmann, Louis Francis	3	Hungary
Wagoner, Guy Leon, B.S.	3	Council Bluffs, Iowa
Walpe, Hyman Susan	2	McCombs, Iowa
Weaver, George Lynn	2	Chicago
Werner, Peter Joseph	1	Antigo, Wisconsin
Welden, Ned Amos	4 (SS)	Chicago
White, Cyrus Lanyon	1	Wheaton
Whitmire, Clarence Leonard	2	Mineral Point, Wisconsin
Williams, Mary Edith, A.M.	4	Waverly, Iowa
Williamson, Earl Willbre	2	Evanston
Willis, Howard Henry	1	Tuscola
Wishensky, Louis Jerome	1	Newmarket, Ontario
Wittelle, Frank Max	1	Chicago
Wojniak, Frank	4	Chicago

COLLEGE OF DENTISTRY

Name	Year	Residence
Achinelly, Oscar L	2	La Plata, Argentine Republic
Adams, Raymond Eugene	1	Chicago
Allen, Bernard Ruben	2	Chicago
Allgeier, James Harold	2	Chicago
Anderman, Sanford	3	Chicago
Anderson, Martin R	3	Lynn Center
Arneson, Odel Thomas	1	Whitehall, Wisconsin

Arneson, J Bertram	2	Chicago
Bacher, William A	1	Bayonne, New Jersey
Baird, William Glen	3	Portland, Oregon
Ball, Frank	2	State Center, Iowa
Bashur, Abraham	2	Burj Safila, Syria
Baumgartner, Arthur	1	Chicago
Beane, Edgar Graham	3	McKees Rocks, Pennsylvania
Bellan, Chester P	2	Chicago
Bellows, Marion Ellsworth	1	Kalamazoo, Michigan
Berens, Vincent J	2	Shakopee, Minnesota
Best, Reginald	1	Evanston
Blatt, Arthur	1	Chicago
Bloom, Max	1	Chicago
Bluestein, Bernard	1	Chicago
Brennan, W Adrian	1	Flandreau, South Dakota
Breyer, Austin S	2	Waupun, Wisconsin
Briggs, Orville Clinton	2	Columbia City, Indiana
Brodsky, Jacob A	1	Chicago
Brooks, Stanley O	1	Faulkton, South Dakota
Brown, Clyde	2	Plant City, Florida
Burnstein, Harry	1	St. Joseph, Missouri
Bush, Earl F	1	E. Stroudsburg, Pennsylvania
Campbell, George A	1	Grand Forks, North Dakota
Carroll, Frederick William	2	Chicago
Carter, Lowell Jameson	1	Des Moines, Iowa
Chambers, Laura (Mrs.)	2	Chicago
Collins, Gerald Ralph	2	Vermillion, South Dakota
Connor, Ralph William	1	Wilmette
Conroy, Cecil Raymond	3	Belleville
Cunningham, Norris L	2	Bowen
Dann, Forrest	1	Centerville, South Dakota
Di Cosola, Septimo	1	Chicago
Di Cosola, Salvatore	1	Chicago
Dipple, Frederick C	1	North Freedom, Wisconsin
Dipple, Albert R	2	North Freedom, Wisconsin
Dodge, Charles A, D.D.S.	sp	Chicago
Dolson, John Lewis	3	Charlotte, Michigan
Doyle, Thomas Lee	1	Fulton
Drea, Arthur S	2	Chicago
Droher, Isaac H	2	St. Joseph, Missouri
Duke, Harrison Reed	1	Chicago
Dursem, Chester Davis	2	Racine, Wisconsin
Eklund, Egner A	3	Cleveland, Ohio
Erickson, Edwin O	2	Cottonwood, Minnesota
Evanoff, Eove	1	Chicago
Felz, John E	3	Chicago
Fine, Rachael, D.D.S.	2	Minsk, Russia
Finnegan, John	1	Homer
Forslund, Cecil W	1	Fairbury, Nebraska
Forwalter, Maurice	1	Conway, Ohio
Franklin, Harry V	3	Dubuque, Iowa
Franzwa, Charles	3	Mondovi, Wisconsin
Freeman, Charles B	2	Volga, South Dakota
Geduldig, Chester J	1	Chicago
Goldberg, Joseph I	1	Chicago
Goldberg, Isadore	2	Chicago
Goldman, Maurice	1	Chicago
Gorman, Elsie (Mrs.)	1	Sioux Falls, South Dakota
Gorman, Francis L	2	Chicago
Halbmaier, Albert E	1	Flandreau, South Dakota
Halmhuber, Paul G	1	Detroit, Michigan
Hamachek, Slavic O	1	Kewaunee, Wisconsin
Handler, Louis	1	Chicago
Hein, L F A	1	Stevens Point, Wisconsin
Hewitt, Norman Oscar	2	Montreal, Canada
Hibbard, Leo C	3	Lake Geneva, Wisconsin
Horwich, Harvey	1	Chicago
Hughes, Theron Rex	1	Berwyn
Huseby, Richard John	1	Grand Forks, North Dakota
Inde, Dean E	3	Waupun, Wisconsin
Jarrett, Frank Alfred	3	Chicago
Jaros, Joseph Edward	3	Chicago
Johnson, Haral Richard	3	Aurora
Kadlec, Lillian A	2	Chicago
Kalinsky, Joseph Henry	3	Chicago
Kane, Joseph J	1	Mt. Pleasant, Michigan
Kastel, Abe I	1	Chicago
Kawamura, Hiroshi, D.D.S.	3	Tokyo, Japan
Kern, Kenneth Mason	3	Toledo, Ohio
Ketterhagen, Alfred J	2	Burlington, Wisconsin
Korsbrek, Oscar	2	Wheaton, Minnesota
Kozinski, Lucian C	2	Chicago
Krost, Max Howard	2	Chicago
Kubacki, Wauciau	3	Chicago
Lace, John L	1	Watseka

Lambert, A Myron	1	Harvey
Landgren, Clarence A	1	Fergus Falls, Minnesota
Lapp, Samuel	1	Chicago
Lasker, Herman	2	Chicago
Lee, Carl S	3	Mondosi, Wisconsin
Lehman, Abe	1	Chicago
Levin, Solomon H	1	Chicago
Lincoln, Richard Grant	3	Union Grove, Wisconsin
Lippitz, Maurice	1	Chicago
Loomis, Clifford C	1	Chicago
Maillard, Felix McD	1	Trinidad, B. W. I.
Malter, Ernest	1	Oak Park
Marchand, Raoul Joseph	1	Rolla, North Dakota
Marsily, Genalin Raymond D	1	Honolulu, Hawaii
Masters, Lyle W	2	Angola, Indiana
McClurkin, James Lee	3	Girard, Ohio
McGugin, D N	1	Pierre, South Dakota
McKeague, L M	1	Detroit, Michigan
McNear, Philip Martin	1	Columbia City, Indiana
Meinhardt, John D	2	Whitehall, Michigan
Mershimer, James Dwight	3	Chicago
Metcalf, William George	1	Streator
Middleton, W Vance	1	Des Moines, Iowa
Miller, G A, D.D.S.	sp	Chicago
Motlong, Chauncey E	2	Crete
Nava, Jose F	1	Manila, Philippine Islands
Nemecek, Charles A	3	Chicago
Newall, Mary	1	Chicago
O'Connor, John Francis	1	Chicago
Oelschlager, John M	3	Cleveland, Ohio
Olson, William D	2	Volga, South Dakota
Ort, Robert Krider	1	Cherubusco, Indiana
Ostrowski, Theodore C	3	Chicago
Owen, Jesse S	2	Chicago
Pastor, Joseph R	1	Cayey, Porto Rico
Plevo, Joseph E	1	Chicago
Ploche, Leon R E	1	Santiago, Cuba
Pretlow, Russel T	1	Winchester, Indiana
Pyle, Benjamin G	2	Kalamazoo, Michigan
Rasmussen, Harry	1	Chicago
Reiland, Marjorie M	1	E. Chicago, Indiana
Reckard, Harry J	3	Chicago
Rice, Arthur L	1	Oak Park
Riedel, John Philip	2	Chicago
Robbins, Clarence J	1	Carthage, South Dakota
Rubenzik, Harry	1	Chicago
Rubin, Edward Allen	3	Chicago
Rund, Jaroslav	1	Chicago
Rosenthal, William	2	St. Joseph, Missouri
Sannce, Dedrik	1	Madison, Wisconsin
Savage, Edmund H	2	Wheaton
Schiltz, Albert F	3	Iowa City, Iowa
Schindler, Edward	1	Kalamazoo, Michigan
Secrest, Paul J	3	Delevan
Senty, Myron J	2	Arcadia, Wisconsin
Shalek, Victor James	3	Chicago
Shalek, Kenneth	1	Chicago
Sherman, Robert I	3	Chicago
Skolnik, Herman H	2	Chicago
Skaten, Otto M	1	Whitehall, Wisconsin
Simon, Barney H	1	Chicago
Sippy, Burne O, A.B.	3	Chicago
Smith, Barnett Quillen	3	Carrollton, Missouri
Smith, William Rudolph	1	Mineral Point, Wisconsin
Spafford, Eugene Adam	1	Rockford
Spillane, Leslie O	1	Battle Creek, Michigan
Starrett, Frederick Homer	2	Hancock, Michigan
Stiernberg, Robert C	2	Fort Lavaca, Texas
Stillerman, Jacob H	1	Chicago
Stuart, Carroll W, D.D.S.	sp	Chicago
Stubbs, James Walter	2	Aurora
Swain, Herbert Dow	1	Kewanee
Tark, Leo	3	Chicago
Teter, Harry Arthur	2	Chicago
Thomas, Ashley	2	Faulton, South Dakota
Turner, William Earl	2	Wheatland, North Dakota
Upp, Carlos Alfred	1	Havana
Vita, Emil M	1	Chicago
Weaver, William Jackson	1	Raleigh, North Carolina
Webb, E W	1	Edgemont, South Dakota
Weir, George Lester	3	North Platte, Nebraska
West, Harold	1	Stevens Point, Wisconsin
White, Leslie George	3	Golden
Wilder, Robert E	2	Chicago
Wilson, J F	3	Stanberry, Missouri

Winner, Harry	1	Osseo, Wisconsin
Winsberg, Harry	3	Chicago
Wood, Alfred Harold	2	Utica, New York
Wynkoop, William B	3	St. Joseph, Michigan
Yeatman, Oscar B	2	Huntsville, Alabama

SCHOOL OF PHARMACY, 1916-17

Name	Course ¹	Residence
Addie, Earl Harry	P sp	Oak Park
Agdesteen, Oliver Toby	P 2	Chicago
Allen, Raymond Leslie	P 1	Mt. Vernon
Alstaedt, Benjamin William	P 2	Chicago
Anderson, Mrs. Ednah Blanche	PC 2	Dow City, Iowa
Anderson, Lloyd Chester	P 1	Manitowoc, Wisconsin
Antonello, Joseph	P sp	Chicago
Babbitt, Corydon Aephalia	P 2	Chicago
Bagdziunas, Joseph Francis	P 1	Chicago
Baird, Harold Glen	P 1	Harvard
Bakkers, Arthur	P 2	Chicago
Bakkers, Mrs. Neff Kuyper	P 2	Chicago
Barone, Christopher	P 2	Chicago
Benedicto, Ernesto Vazques, A.B. (Rizal University) 1909	PC 2	Manapla, Philippine Islands
Bertsch, Raymond William	P sp	Galena
Biaselli, Cosmo David	P 1	Chicago
Bidwell, Charles	P 2	Albion, Indiana
Bloch, William	P 2	Chicago
Bloom, Irwin	P 2	Chicago
Bonnen, Edward George	P 1	Gibson City
Borovik, Reuben Ray	P 2	Chicago
Bower, Miss Georgiana Grace	P 1	Chicago
Cagney, John Joseph	P sp	Chicago
Calderon, Guillermo	P 2	El Paso, Texas
Calef, John Fred	P 1	Norwood Park
Carlson, Ethel Marie	P 1	Hubbard Woods
Christiansen, Carl Bernhard	P 2	Chicago
Chochola, James Joseph	P 2	Chicago
Compton, Allen Brownlow	P sp	Mt. Vernon
Datz, Charles Percival	P 2	Chicago
DeMarti, Salvatore	P 1	Buffalo, New York
Dillow, Russell Lowell	P 2	Dongola
Dimond, Walter Harry	P 1	Chicago
Doherty, Daniel Joseph	P sp	Clinton, Iowa
Downey, John Patrick	P 2	Chicago
Dunn, Ulysses Simpson, A.B. (Lincoln University) 1913	P 2	Ravenna, Ohio
Dyniewicz, Hattie Adela	P 2	Chicago
Dyniewicz, Josephine Marion	P 2	Chicago
Early, Harold Ivan	P 1	Barry
Easter, Joseph Henry	P 1	East St. Louis
Elliott, Victor Alfred	P 1	Casey
Feigl, Ferdinand John	P 2	Chicago
Ferring, Alphonze Peter	P 2	New Vienna, Iowa
Fineman, Paul	P sp	Chicago
Flynn, William Howard	P sp	Springfield
Forbrich, Edward James	P sp	Chicago
Formhals, Wallace Joseph	P 1	Ottawa
Frederick, Albert Charles	P 2	Chicago Heights
Friedley, Andrew Carl	P 2	Chicago
Fritschell, Arno William	P 1	Chicago
Gendreau, Albert Earl	P sp	Chicago
Goldman, Benjamin	P 2	Chicago
Gordon, Maurice William	P sp	Chicago
Green, Leonard Ralph	P 2	Herrin
Grenberg, Richard Emmanuel	P 1	Rockford
Grosse, Arthur Gustav	P 1	Chicago Heights
Guild, Grant	P 2	Geneseo
Haerberle, Erwin John	P 1	Broken Bow, Nebraska
Haffner, Carl Francis	P 2	Bloomington
Harvey, Roy Ernest	P 2	Chicago
Heidbreder, Grant Henry	P 2	Quincy
Hesse, Calvin William	P sp	Springfield
Hlavacek, Louis	P sp	Chicago
House, Lester Allen	P 1	DuQuoin
Huhn, William	P sp	Chicago
Johannes, Fred Richard	P sp	Chicago
Jordan, Clement	P 2	Wapella
Kahler, Howard Morris	P 1	Rochelle

¹ Abbreviations: P, Pharmacy; PC, Pharmaceutical Chemistry; 1, first year; 2, second year; sp, special.

Kaminski, Richard Marshall	P	2	Chicago
Kaplan, Samuel Salmon	PC	2	Chicago
Kaspar, William John	P	1	Chicago
Kell, Richard Marcellus	P	1	Mobile, Alabama
Klein, Beulah	P	2	Downers Grove
Kmieciak, Stanley	P	1	Chicago
Kodl, Albert James	P	sp	Chicago
Koepsell, Willie Edward	P	sp	Mayville, Wisconsin
Koontz, John Charles	P	sp	Streator
Kunkel, Wayne Andrew	P	1	Litchfield
Landers, Chester Arthur	P	1	Oregon
Latsis, Harry Hlia	PC	2	Chicago
Lenz, Charles Gustave	P	1	Chicago
Leone, John Edwin	P	2	Chicago
Levy, John Arthur	P	1	Chicago
Lindahl, John Harry	P	sp	Chicago
Lowe, Charles Edward	P	sp	Marion, Indiana
Lundgren, Oscar Ludvick	P	2	Highland Park
Lyons, Owen Merle	P	sp	Cuba
McDonald, William James	P	2	Murphysboro
McGinnis, Walter Thomas	P	2	Rochelle
McClure, Miss Pauline	P	1	Chicago
McCool, Frank Sell	P	sp	Springfield
Marshall, Bruce Scott	P	2	Chicago
Mayerson, Alexander Carl	P	1	Chicago
Melvin, James Edwin	P	2	Chicago
Menard, Wilfred Ignatius	P	1	Chicago
Menella, Vincent Robert	P	2	Chicago
Miller, Carl Theodore	P	2	Chicago
Muench, Adam Ernest	P	1	Glencoe
Neumann, Herbert Leonard	P	2	Chicago
Nichols, Hiram Vanderbilt	P	2	Chicago
Olk, John Jacob	P	sp	Chicago
Ostrowski, Bernice Antoinette	P	2	Hammond, Indiana
Owens, Hubert Fred	P	1	Clinton
Parkhurst, Ralph	P	sp	Efingham
Pelikan, Mrs. Alice Eliska	P	2	Chicago
Perez, Victor	P	sp	Seyba, San Domingo, W. I.
Person, Frank Daniel	P	2	Chicago
Petronek, Charles Wesley	P	sp	Kankakee
Pieper, Henry Anthony	P	2	Jacksonville
Pohlman, Paul Henry	P	2	Pelatine
Porter, Lillian	P	2	Chicago
Post, Charles Ezra	P	2	Chicago
Prutsman, Harold Claude	P	2	Princeton
Ralph, William Francis	P	1	Odell
Rauschert, Emil Paul	P	2	Chicago
Reisman, Samuel	P	sp	Chicago
Robinson, Adrian Arthur	P	1	Rockford
Robinson, Garnsie H	P	2	Rockford
Roman, Miguel Angel	P	2	Santiago, San Domingo, W. I.
Ruder, Mrs. Rose J	P	2	Chicago
Sallmann, Frank	P	sp	Pullman
Schobert, Rudolph Johannes	P	2	Chicago
Schreyer, Michael	P	sp	Chicago
Seibert, Lyle Albert	P	2	Ashley
Shapiro, Leo Harold	PC	2	Chicago
Shindler, Harold Allen	P	1	Litchfield
Shine, Joseph John	P	sp	Chicago
Siewers, Karl Lyons	P	1	Evanston
Silberberg, Gust	P	sp	Chicago
Silverman, Samuel	P	sp	Chicago
Simmons, Donald Fletcher	P	2	Girard
Slepicka, Irwin Miles	PC	2	Cicero
Smith, Franklin Pierce	P	1	Rising Sun, Indiana
Smith, Gene William	P	sp	Fillmore
Snyder, Dayle Albert	P	2	Astoria
Snyder, John Samuel	P	1	Boonsboro, Maryland
Steffen, Edward Diedrich	P	2	Whitefish, Montana
Stein, Victor	P	2	Chicago
Steinweg, Walter Charles	P	2	Chicago
Still, Perrie Clayton	P	2	DeKalb
Tate, William Mack	P	1	Pine Bluff, Arkansas
Thompson, Raymond Lu	P	1	DuQuoin
Thoroman, Ralph Rickey	PC	2	Mt. Sterling
Turnell, Edward Oscar	P	sp	Chicago
Ude, Louis Edward	P	2	Carmi
Unger, Joseph August	P	1	Rochelle
Vahlteich, Hans Walter	P	2	Chicago
Vovesney, Joseph Paul	P	2	Chicago
Ward, Burt Hamor	P	1	Toulon
Warren, Leslie Ernest	P	2	Waukegan
Wherley, Homer Leo	P	1	Astoria
White, Edward Napoleon	P	1	Mounds
Whittington, Omar Rosewell	P	2	Waldron, Arkansas

Wilson, Charles Harvey	<i>P</i>	<i>2</i>	<i>Pomona, California</i>
Wilson, Ruth Frieda	<i>PC</i>	<i>2</i>	<i>Chicago</i>
Windmueller, Ralph William	<i>P</i>	<i>1</i>	<i>Chicago</i>
Wisniewski, Thomas Al	<i>P</i>	<i>sp</i>	<i>Chicago</i>
Wong, Ping Wa	<i>P</i>	<i>1</i>	<i>Hong Kong, China</i>
Wood, George Washington	<i>P</i>	<i>1</i>	<i>Chicago</i>
Worsham, Irl Conger	<i>P</i>	<i>sp</i>	<i>Guthrie, Missouri</i>
Wyle, Arnim Robert	<i>P</i>	<i>1</i>	<i>Waverly</i>
Yule, Paul Watson	<i>P</i>	<i>1</i>	<i>Harcourt, Iowa</i>

DEGREES CONFERRED

1916

THE UNDERGRADUATE COLLEGES

Degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Music

Conferred June 14, 1916

DANIEL ARTHUR ALBRECHT, Bachelor of Arts (Science)
JOHN ALVA ALEXANDER, Bachelor of Arts (Science)
EUGENIE ALLAIS, Bachelor of Arts (Liberal Arts)
ALICE ALEXANDRIA ALLEN, Bachelor of Arts (Liberal Arts)
ERNEST VICTOR ALLEN, Bachelor of Science (Mining Engineering)
FRANK OSCAR ALLEN, Bachelor of Arts (Liberal Arts)
PAUL GLEN ALLEN, Bachelor of Arts (Liberal Arts)
WORTH ARTHUR ALLISON, Bachelor of Arts (Liberal Arts); Bachelor of Science (Agriculture)
GENEVIEVE RAYMOND ALVORD, Bachelor of Arts (Liberal Arts)
MERVIL CARLYLE ALVEA, Bachelor of Science (Agriculture)
LOUISE AMBORN, Bachelor of Arts (Liberal Arts)
DOUGLAS JACQUES AMOS, Bachelor of Science (Agriculture)
PAUL DONALD AMSBARY, Bachelor of Science (Architecture)
OWEN HUNTINGTON ANDERSON, Bachelor of Science (Mechanical Engineering)
HARRY LEE ANDREWS, Bachelor of Arts (Liberal Arts)
ROSCOE CRUM ANDREWS, Bachelor of Arts (Liberal Arts)
FREDERICK VERNE ARBER, Bachelor of Arts (Liberal Arts)
WILLIAM LOUIS ASHBECK, Bachelor of Science (Architectural Engineering)
HOMER FRANKLIN ATTEBERY, Bachelor of Science (Agriculture)
RALPH EDGAR AUGUSTAS, Bachelor of Science (Agriculture)
JOHN THOMPSON AUTEN, Bachelor of Science (Agriculture)
JENNIE MAY BARCOCK, Bachelor of Arts (Liberal Arts)
ROBERT HAMILTON BACON, Bachelor of Science (Electrical Engineering)
WALLACE BOTHWELL BAIN, Bachelor of Science (Agriculture)
WALTER EARL BAKER, Bachelor of Arts (Commerce)
SARVA RUPA BAKSHI, Bachelor of Science (Railway Civil Engineering)
JANET CHRISTINE BALDWIN, Bachelor of Arts (Liberal Arts)
LEO STARR BALDWIN, Bachelor of Arts (Science); Bachelor of Science (Architectural Engineering)
SALOME ROSE BALKEMA, Bachelor of Arts (Liberal Arts)
JOHN KENNETH BARBER, Bachelor of Arts (Liberal Arts)
ANNA LAURA BARDWELL, Bachelor of Arts (Liberal Arts)
OTIS AVERY BARNES, Bachelor of Science (Science)¹
RUSSELL DANIEL BARNES, Bachelor of Science (Architectural Engineering)
NELLIE FLORA BARTELLS, Bachelor of Arts (Liberal Arts)
EDWARD FRED BARTH, Bachelor of Science (Agriculture)
JAMES SUMMERFIELD BARTHOLOW, Bachelor of Arts (Liberal Arts)
JOHN SOLOMON BARTLEY, Bachelor of Science (Architecture)
HARRIETT THOMPSON BARTO, Bachelor of Arts (Liberal Arts)
FRANK HERMAN BEACH, Bachelor of Arts (Liberal Arts)
WALTER HUBERT BEAL, Bachelor of Arts (Liberal Arts)
EDWARD CORBYN OBERT BEATTY, Bachelor of Arts (Liberal Arts)
WARREN PLATT BEAUBIEN, Bachelor of Science (Architectural Engineering)
EDWIN ADAMS BEBB, Bachelor of Science (Agriculture)
FORREST BEBB, Bachelor of Science (Agriculture)
LEWIS MICHAEL BECKER, Bachelor of Science (Mechanical Engineering)
HERBERT RICHARD BEHR, Bachelor of Science (Electrical Engineering)
HELEN BEHRENSMEYER, Bachelor of Arts (Liberal Arts)
KENNETH CORWIN BELL, Bachelor of Arts (Commerce)
CHARLES FRANKLIN BELSHAW, Bachelor of Science (Mechanical Engineering)
JOHN SHAFER BELTZ, Bachelor of Science (Electrical Engineering)
FRANK LUVERNE BENNETT, Bachelor of Science (Agriculture)
HAZEL MARGUERITE BENNETT, Bachelor of Arts (Liberal Arts)
CLARENCE LOUIS BENTZ, Bachelor of Science (Architectural Engineering)
BEN CONRAD BERG, Bachelor of Arts (Liberal Arts)¹
MARIE VALENTINE BERLIN, Bachelor of Arts (Liberal Arts)
JOSEPHINE ELIZABETH BERNHARDT, Bachelor of Arts (Liberal Arts)
ALBON LEDRU BEVIS, Bachelor of Arts (Commerce)
ELIZABETH GUNDER BEYER, Bachelor of Arts (Liberal Arts)
MARIE TERESA BLEUEL, Bachelor of Arts (Science)
EDWARD STEVENSON BLOCK, Bachelor of Science (Agriculture)
HSI-PAN BOGGS, Bachelor of Arts (Commerce)
EMERSON FRANKLIN BOLINGER, Bachelor of Science (Electrical Engineering)
CLINTON L A BOOKEMOHL, Bachelor of Science (Architectural Engineering)
WALTER FRED BOYE, Bachelor of Arts (Liberal Arts)

¹With thesis.

JOHN THOMAS BRADLEY, Bachelor of Arts (Commerce)
 GEORGE KEYPORTS BRADY, Bachelor of Arts (Liberal Arts)
 EMIL GEORGE BRANDNER, Bachelor of Arts (Liberal Arts)
 JOSEPH FRANKLIN BRANDON, Bachelor of Science (Agriculture)
 JOHN BREEDIS, Bachelor of Science (Science)¹
 EMMA MATILDA BREITSTADT, Bachelor of Arts (Liberal Arts)
 HULDA CHARLOTTE BREITSTADT, Bachelor of Arts (Liberal Arts)
 AMOS LLOYD BRENEMAN, Bachelor of Science (Agriculture)
 CLELL MCARTHUR BRENTLINGER, Bachelor of Science (Electrical Engineering)
 VERNE WILLIAM BRINKERHOFF, Bachelor of Science (Science)
 ROGER BECKWITH BRONSON, Bachelor of Arts (Commerce)
 ETHEL ISABEL BROOKS, Bachelor of Arts (Liberal Arts)
 RAYMOND HARRISON BROOKS, Bachelor of Science (Agriculture)
 BAYARD BROWN, Bachelor of Science (Agriculture)
 CLAIR WILLIAM BROWN, Bachelor of Science (Agriculture)
 KENNETH GEORGE BROWN, Bachelor of Arts (Liberal Arts)
 LISBETH BROWN, Bachelor of Arts (Liberal Arts)
 ROBERT REA BROWN, Bachelor of Arts (Commerce)
 EARL VIVIAN BRUNTING, Bachelor of Science (Agriculture)
 ORELLO SIMMONS BUCKNER, Bachelor of Science (Ceramics)
 TEMPLE HOYNE BUELL, Bachelor of Science (Architecture)
 ABRAHAM SAMUEL BUHAI, Bachelor of Science (Ceramic Engineering)
 LLOYD DANIEL BUNTING, Bachelor of Arts (Liberal Arts)
 DAVID WARNER BURGOON, Bachelor of Science (Electrical Engineering)
 PAUL HENRY BURKHART, Bachelor of Science (Electrical Engineering)
 CLIFFORD CLARE BURNS, Bachelor of Science (Agriculture)
 OWEN MCINTOSH BURNS, Bachelor of Arts (Liberal Arts)
 THOMAS HENRY BURRELL, Bachelor of Science (Architectural Engineering)
 RALPH SAMUEL BURWASH, Bachelor of Science (Mechanical Engineering)
 KENNETH BURMAN BUSH, Bachelor of Science (Civil Engineering)
 CHESTER JUNIUS CADLE, Bachelor of Arts (Commerce)
 DAVID JOSEPH CAMPBELL, Bachelor of Science (Agriculture)
 CARRIE ESTHER CARLSON, Bachelor of Arts (Liberal Arts)
 LEE RUSSELL CARLSON, Bachelor of Arts (Commerce)
 FRANKLIN OTIS CARROLL, Bachelor of Science (Railway Electrical Engineering)
 RUSSELL D V CASTLE, Bachelor of Arts (Commerce)
 GRACE ELIZABETH CHAMPLIN, Bachelor of Science (Agriculture)
 TIEN TSAI CHANG, Bachelor of Science (Agriculture)
 JOHN BAPTIST CHARTRAND, Bachelor of Science (Electrical Engineering)
 CARNEY EDWARD CHATTEN, Bachelor of Arts (Science)
 LAN SUNG CHEN, Bachelor of Arts (Commerce)
 DOROTHY CHEW, Bachelor of Arts (Liberal Arts)
 GLEN CHRISTY, B.Mus., Bachelor of Arts (Liberal Arts)
 OTTO CHRISTY, Bachelor of Science (Agriculture)
 EDMUND CIESLIK, Bachelor of Science (Civil Engineering)
 GEORGE CLARK, Bachelor of Science (Agriculture)
 HAROLD EDWARD CLARK, Bachelor of Science (Ceramics)
 JAMES RUSSELL CLARK, Bachelor of Science (Architecture)
 MERIBAH ELIZA CLARK, Bachelor of Arts (Liberal Arts)
 ALBERT JAY CLARKSON, Bachelor of Science (Railway Electrical Engineering)
 CLARA ALICE CLAUSEN, Bachelor of Arts (Liberal Arts)
 DOROTHEA MARION CLAYBERG, Bachelor of Science (Architecture)
 HOWARD JOHN CLINEBELL, Bachelor of Science (Agriculture)
 FRIEDA COBE, Bachelor of Arts (Science)
 RUSSELL SMITH COLTON, Bachelor of Science (Municipal and Sanitary Engineering)
 DAVID ORIS CONLEY, Bachelor of Arts (Medicine)
 RICHARD NEWELL COOLIDGE, Bachelor of Science (Civil Engineering)
 GABRIEL VICTOR COOLS, Bachelor of Arts (Liberal Arts)
 CHARLES EDWARD COOPER, Bachelor of Science (Agriculture)
 DAVID WILLIAM COOPER, Bachelor of Science (Electrical Engineering)
 EDWARD ALDEN COOPER, Bachelor of Arts (Science)
 VAIL CORDELL, Bachelor of Arts (Liberal Arts)
 BRUCE HERBERT CORZINE, Bachelor of Arts (Liberal Arts)
 MANOEL FERREIRA DE COSTA, Bachelor of Science (Electrical Engineering)
 LICINIO DA SILVA COUTO, Bachelor of Science (Electrical Engineering)
 CLINTON HARRIMAN COWGILL, Bachelor of Science (Architecture)
 DUDLEY WINTHROP CRANE, Bachelor of Science (Agriculture)
 THOMAS CARL CRAVENS, Bachelor of Science (Agriculture)
 JOHN POWELL CREBS, Bachelor of Science (Agriculture)
 HILDA MARION CROLL, Bachelor of Arts (Liberal Arts)
 HAROLD FORDYCE CROOKS, Bachelor of Arts (Science)
 HENRY FAY CROSBY, Bachelor of Science (Agriculture)
 GEORGE ARTHUR CROSS, Bachelor of Science (Agriculture)
 WILLIAM CRUTCHFIELD, Bachelor of Science (Architecture)
 JOHN DEWITT CULP, Bachelor of Science (Civil Engineering)
 GEORGE CURTISS, Bachelor of Science (Agriculture)
 WILLIAM GOSS CURTISS, Bachelor of Science (Agriculture) Class of 1882
 DOROTHY LUCILE CUTHBERT, Bachelor of Arts (Liberal Arts)
 JOHN WILLIAM DAMMERS, Bachelor of Science (Science)
 CLARA ELIZABETH DAVIS, Bachelor of Music
 MARTHA LAURAFRED DAVIS, Bachelor of Arts (Liberal Arts)
 LISTER ALWARD DEEVER, Bachelor of Science (Ceramics)
 RAYMOND EDWARD DENZ, Bachelor of Arts (Liberal Arts)

¹With thesis.

LUCY LEONORA DEWOLFE, Bachelor of Arts (Liberal Arts)
 HARRY CHARLES DIBELL, Bachelor of Arts (Commerce)
 CLARENCE RICHARD DIETMEIER, Bachelor of Arts (Commerce)
 LOIS ELLEN DODDS, Bachelor of Arts (Liberal Arts)
 JOHN RILEY DONALDSON, Bachelor of Science (Civil Engineering)
 ALLAN DOUGLAS DONNELL, Bachelor of Science (Electrical Engineering)
 MARY ELVA DORSETT, Bachelor of Science (Agriculture)
 JOHN FRANCIS DOYLE, Bachelor of Arts (Commerce)
 HENRY EDWARD DRALLE, Bachelor of Science (Electrical Engineering)
 MILDRED EVANGELINE DREW, Bachelor of Arts (Liberal Arts)
 FRANK JAMES DUFRAIN, Bachelor of Arts (Liberal Arts)
 FRANK LEROY DUNAVAN, Bachelor of Science (Civil Engineering)
 EFFIE CHARLOTTE DUNLAP, Bachelor of Arts (Commerce)
 FRANCIS ELLSWORTH DUNLAP, Bachelor of Science (Architecture)
 ELLEN FRANCES DWYER, Bachelor of Arts (Liberal Arts)
 BESS EAST, Bachelor of Arts (Liberal Arts)
 REX CARR EATON, Bachelor of Science (Agriculture)
 ELMER TRYON EBERSOL, M.S., Bachelor of Science (Agriculture)
 M REECE EDWARDS, Bachelor of Science (Agriculture)
 HENRY EMANUEL EKSTRAND, Bachelor of Science (Architecture)
 HARVEY ELLIS, Bachelor of Arts (Commerce)
 WYATT GOAN EMMOND, Bachelor of Arts (Commerce)
 JOHN GOTTLIEB EPPINGER, Bachelor of Arts (Commerce)
 CARL PAUL ERNST, Bachelor of Science (Civil Engineering)
 ELMORE GEORGE ERNST, Bachelor of Science (Architecture)
 EUGENE PHILIP FAGER, Bachelor of Arts (Science)
 SALEEM RAZI FARAH, Bachelor of Science (Agriculture)
 ALBERT AYRTON FARNHAM, Bachelor of Science (Agriculture)
 MIRIAM REBECCA FASOLD, Bachelor of Arts (Liberal Arts)¹
 RUTH CATHERINE FEDDE, Bachelor of Arts (Liberal Arts)
 JOSEPH ELMER FELDMAN, Bachelor of Science (Agriculture)
 WALTER BLAINE FELGER, Bachelor of Arts (Science)
 FLORENCE ROXANA FERGUSON, Bachelor of Arts (Liberal Arts)
 FRANK CLEVELAND FERGUSON, Bachelor of Arts (Liberal Arts)
 CLARENCE EUGENE FIFIELD, Bachelor of Arts (Commerce)
 JAMES HENRY FINNEGAN, Bachelor of Science (Agriculture)
 LAWRENCE FISHER (as of the class of 1891), Bachelor of Science (Architecture)
 ERWIN FISHER, Bachelor of Arts (Commerce)
 EVA JOSEPHINE FISHER, Bachelor of Arts (Liberal Arts)
 HELEN VASTINE FISHER, Bachelor of Arts (Liberal Arts)
 ALVIN TEXAS FISHMAN, Bachelor of Science (Agriculture)
 LEORA ALMITA FITZ-GERALD, Bachelor of Arts (Liberal Arts)¹
 JACK ALLEN FITZGERRELL, Bachelor of Science (Agriculture)
 DENNA FRANK FLEMING, Bachelor of Arts (Liberal Arts)
 FREDERICK RUDOLPH FLETMEYER, Bachelor of Science (Architectural Engineering)
 ERNESTO AUGUSTO FOCK, Bachelor of Science (Civil Engineering)
 MILDRED LILLIAN FORKEY, Bachelor of Science (Agriculture)
 CLAUDE CLIFFORD FOULKE, Bachelor of Arts (Commerce)
 HELEN ELIZABETH FRANCIS, Bachelor of Arts (Liberal Arts)¹
 ANNA DORA FRAZEE, Bachelor of Arts (Liberal Arts)
 PARKE WEST FREARR, Bachelor of Science (Municipal and Sanitary Engineering)
 JOHN FRIER, Bachelor of Science (Mechanical Engineering)
 GUY CHANDLER FULTON, Bachelor of Science (Architecture)
 JOHN HOWARD GAGE, Bachelor of Arts (Science)¹
 ELWYN TRACY GANTS, Bachelor of Science (Mechanical Engineering)
 JOSEPH FREDERICK GAUGER, Bachelor of Science (Agriculture)
 ROBERT EDWIN GAYLE, Bachelor of Science (Agriculture)
 EVELYN ELLA GEHANT, Bachelor of Science (Agriculture)
 ROSALIE FLORENCE GEHANT, Bachelor of Science (Agriculture)
 GEORGE ALBERT GEIB, Bachelor of Science (Civil Engineering)
 GRACE MILDRED GEYER, Bachelor of Arts (Liberal Arts)
 OSCAR HARRY GIBSON, Bachelor of Arts (Liberal Arts)
 MINNIE ELLEN GILBERT, Bachelor of Arts (Liberal Arts)
 JOHN RAY GILKEY, Bachelor of Science (Agriculture)
 BARBARA FRANCES GLESSING, Bachelor of Arts (Liberal Arts)
 EVERETT E GLICK, Bachelor of Science (Agriculture)
 DONALD MITCHELL GLOVER, Bachelor of Arts (Medicine)
 REUEL ARIEL GODEHN, Bachelor of Science (Architectural Engineering)
 WILLIAM HENRY GOELITZ, Bachelor of Arts (Commerce)
 ROBERT SIDNEY GOLDSTEIN, Bachelor of Science (Railway Civil Engineering)
 GRETCHEN LOUISE GOOCH, Bachelor of Arts (Liberal Arts)
 JOHN CHRISTIAN GRABBE, Bachelor of Science (Agriculture)
 ALBERT AMBROSE IGNATIUS GRAFF, Bachelor of Science (Electrical Engineering)
 CLARENCE TODD GRANT, Bachelor of Science (Electrical Engineering)
 RUTH MARGARET GRANT, Bachelor of Arts (Liberal Arts)
 RUTH GRAY, Bachelor of Arts (Liberal Arts)
 JOHN EDWARD GRAYBACK, Jr., Bachelor of Science (Civil Engineering)
 LOUIS JACOB GREENGARD, Bachelor of Science (Agriculture)¹
 HANS PETER GREISON, Bachelor of Arts (Commerce)
 WILLIAM WHITING GRIDLEY, Bachelor of Arts (Commerce)
 LEROY OLIVER GRIESER, Bachelor of Science (Agriculture)
 FRANCIS DICKERSON GRIFFITH, Bachelor of Science (Agriculture)
 JOHN ELMER GRUNER, Bachelor of Science (Electrical Engineering)

¹With thesis.

HERMAN C GRUNEWALD, Bachelor of Science (Civil Engineering)
 HARRY ALLEN GUM, Bachelor of Science (Mechanical Engineering)
 LESLIE MONROE GUMM, Bachelor of Science (Electrical Engineering)
 WOODWARD WILLIAM GUNKEL, Bachelor of Arts (Commerce)
 GEORGE PHILIP GUSTAFSON, Bachelor of Arts (Commerce)
 KATSUKI HADA, Bachelor of Arts (Liberal Arts)¹
 CHESTER GILBERT HADDEN, Bachelor of Science (Agriculture)
 THOMAS ANGUS HAGAN, Bachelor of Science, (Agriculture)
 FRED CHARLES HAHN, Bachelor of Science (Science)¹
 FOREST LIVINGSTON HAINES, Bachelor of Arts (Commerce)
 MINNIE THOMAS HAKE, Bachelor of Arts (Liberal Arts)
 WALTER HENRY HALAS, Bachelor of Science (Architectural Engineering)
 CHARLES MORGAN HALBRUGE, Bachelor of Arts (Commerce)
 PAULINE HALLIWELL, Bachelor of Arts (Liberal Arts)
 EUGENE CARL HAMILL, Bachelor of Science (Architectural Engineering)
 RAUL HANNUSH, Bachelor of Science (Agriculture)
 STANLEY HANSEN, Bachelor of Science (Mechanical Engineering)
 TSO CHANG HAO, Bachelor of Arts (Commerce)
 ALBERT AUSTIN HARDING, Bachelor of Music
 LAURA ELLEN HARTMAN, Bachelor of Arts (Liberal Arts)
 ELODIA FERNE HARRIS, Bachelor of Arts (Liberal Arts)
 LEO GABRIEL HARRIS, Bachelor of Arts (Commerce)
 RALPH FRAME HARVEY, Bachelor of Science (Agriculture)
 SYLVAN DIX HARWOOD, Bachelor of Arts (Liberal Arts)
 CARL OTTO HAWKINSON, Bachelor of Science (Architectural Engineering)
 EMIN WITHERSPOON HAWKINS, Bachelor of Science (Agriculture)
 FRANCIS LEO HEADLEY, Bachelor of Science (Agriculture)
 DWIGHT FREDERICK HEATH, Bachelor of Arts (Science)¹
 ROY THOMAS HECKETSWEILER, Bachelor of Arts (Liberal Arts)¹
 NELLIE MAY HEDGCOCK, Bachelor of Arts (Liberal Arts)
 BERTRAM ATKINSON HEDGES, Bachelor of Arts (Liberal Arts)¹
 EDNA MAY HEDRICK, Bachelor of Arts (Liberal Arts)
 GEORGE SAMUEL HEDRICK, Bachelor of Science (Agriculture)
 JOHN HAROLD HEINDEL, Bachelor of Science (Architectural Engineering)
 AGNES JOHANNA SOPHIA HELMREICH, Bachelor of Arts (Liberal Arts)
 ALEXANDER SWIFT HENDERSON, Bachelor of Arts (Science)
 FRANK SPOOR HENDERSON, Bachelor of Science (Electrical Engineering)
 JAMES BRUCE HENDERSON, Bachelor of Science (Agriculture)
 ELFREDA VIOLA HENNINGS, Bachelor of Arts (Liberal Arts)
 OKLA HAROLD HERSHMAN, Bachelor of Science (Mechanical Engineering)
 LEONARD B HIEBEL, Bachelor of Science (Agriculture)
 IRMA MAY HIGGINS, Bachelor of Arts (Liberal Arts)
 FRED JAMES HILL, Bachelor of Science (Ceramics)
 JAMES EDWARD HILL, Bachelor of Science (Agriculture)
 LUCY BELLE HILL, Bachelor of Music
 WARREN ELLIOTT HILL, Bachelor of Science (Agriculture)
 EDWARD GEORGE HIRT, Jr., Bachelor of Science (Architecture)
 LAURA EDNA HIRTH, Bachelor of Science (Agriculture)
 MABEL HITT, Bachelor of Arts (Liberal Arts)
 FREMONT JOHN AUGUST HOEHN, Bachelor of Science (Ceramics)
 ELMO PAUL HOHMAN, Bachelor of Arts (Liberal Arts)¹
 ARNOLD CARL HOLINGER, Bachelor of Science (Architectural Engineering)
 BLANCHE LOUISE HOLLANDSWORTH, Bachelor of Arts (Liberal Arts)
 DAVID PRESTON HOLLIS, Bachelor of Arts (Liberal Arts)
 CHARLES VERNON HOLMES, Bachelor of Arts (Science)
 DORIS JEAN HOLLOWAY, Bachelor of Arts (Liberal Arts)
 HARRY STEVENS HOLTZE, Bachelor of Science (Architectural Engineering)
 GOLD SAMUEL HOPKINS, Bachelor of Arts (Commerce)
 DOROTHY STEWART HORNEL, Bachelor of Arts (Liberal Arts)
 OLIVE DEAN HORMEL, Bachelor of Arts (Liberal Arts)¹
 SUSAN EUNICE HOSFORD, Bachelor of Arts (Liberal Arts)
 BRUCE QUIN HOSKINSON, Bachelor of Arts (Liberal Arts)
 WALDERN HENRY HOUGH, Bachelor of Science (Architectural Engineering)
 IRMA L HOUSER, Bachelor of Arts (Liberal Arts)
 CHARLES RALPH HOWE, Bachelor of Science (Agriculture)
 WILLIAM THOMAS HOWE, Bachelor of Science (Agriculture)
 GRACE LAURA HOWELL, Bachelor of Arts (Liberal Arts)
 WILLIS WILKINSON HUBBARD, Bachelor of Science (Architecture)
 CHARLES THURMAN HUFFORD, Bachelor of Science (Agriculture)
 KENNETH BLAINE HUMPHREY, Bachelor of Science (Electrical Engineering)
 CHARLES EVERETT HUNGERFORD, Bachelor of Science (Municipal and Sanitary Engineering)
 FRANK SUMNER HUNT, Bachelor of Science (Ceramics)
 LESLIE LYMAN HUNT, Bachelor of Science (Agriculture)
 HOMER IRVING HUNTINGTON, Bachelor of Science (Agriculture)
 OLIVER CROMWELL KEMP HUTCHINSON, Bachelor of Science (Mechanical Engineering)
 ROBERT HYNDMAN, Jr., Bachelor of Science (Electrical Engineering)
 CORA EDNA JACKSON HYPES, Bachelor of Arts (Liberal Arts)
 GEORGE WILLIAM HYPES, Bachelor of Science (Agriculture)
 JAMES LOWELL HYPES, Bachelor of Arts (Liberal Arts)
 OLIVER STAPP IMES, Bachelor of Science (Electrical Engineering)
 HORACE BALLOU INGALS, Bachelor of Science (Agriculture)
 SHERMAN INGELS, Bachelor of Science (Agriculture)
 CHARLES HAROLD JACKMAN, Bachelor of Science (Mechanical Engineering)

¹With thesis.

ROWLING JARVIS, Bachelor of Science (Electrical Engineering)
 JOHN BENJAMIN JEFFERSON, Bachelor of Science (Mechanical Engineering)
 CARSON GARY JENNINGS, Bachelor of Science (Civil Engineering)
 FLORENCE MAY JERVIS, Bachelor of Music
 LEO CHARLES JEZ, Bachelor of Science (Agriculture)
 EDNA LOUISE JOHNSON, Bachelor of Arts (Science)
 MARY FERN JOHNSON, Bachelor of Arts (Liberal Arts)
 MARCUS LEONARD JOHNSON, Bachelor of Science (Civil Engineering)
 MAURICE CARL JOHNSON, Bachelor of Science (Mechanical Engineering)
 MAYNARD WAYNE JOHNSON, Bachelor of Arts (Commerce)
 DWIGHT IRWIN JOHNSTON, Bachelor of Arts (Commerce)
 DAVID ROBERT JONES, Bachelor of Science (Civil Engineering)
 J RUSSELL JONES, Bachelor of Arts (Commerce)
 MILDRED JOYNER, Bachelor of Arts (Liberal Arts)
 LOUIS FREDERICK JUNGKUNZ, Bachelor of Arts (Commerce)
 MAX JOSEPH KADINSKY, Bachelor of Science (Railway Civil Engineering)
 THOMAS DEBENHAM KAHLERT, Bachelor of Science (Agriculture)
 RUFUS MAURICE KAMM, Bachelor of Science (Science)¹
 WILBUR FRED KAMM, Bachelor of Arts (Science)¹
 ROBERT CLAIR KANE, Bachelor of Science (Electrical Engineering)
 JAMES KANTOR, Bachelor of Science (Electrical Engineering)
 AIVA HUGO KARRAKER, Bachelor of Science (Agriculture)
 WILLIAM HENRY KASTEN, Bachelor of Science (Agriculture)
 TANE KAWAMOTO, Bachelor of Science (Electrical Engineering)
 WALTER MOORE KEACH, Bachelor of Science (Agriculture)
 ORO SYLVESTER KEENER, Bachelor of Science (Science)¹
 SAKAI KEITOKU, Bachelor of Arts (Liberal Arts)
 ARTHUR RAYMOND KELLER, Bachelor of Science (Civil Engineering)
 FRANCIS HUGH KELLEY, Bachelor of Science (Agriculture)
 HENRY PHILIPS KELLEY, Bachelor of Science (Agriculture)
 SAMUEL ADAMS KELLOGG, A.B., Bachelor of Science (Agriculture)
 BYRON FLORENCE KENNER, Bachelor of Science, (Mechanical Engineering)
 VERNON HARLOW KERN, Bachelor of Science (Agriculture)
 PAUL PETER KIESSIG, Bachelor of Science (Agriculture)
 LEVETT KIMMEL, Bachelor of Science (Agriculture)
 DEWITT LEONARD KING, Bachelor of Science (Mechanical Engineering)
 VIVIAN KING, Bachelor of Arts (Liberal Arts)
 ARMIN MARTIN KIRCHER, Bachelor of Science (Civil Engineering)
 SIDNEY DALE KIRKPATRICK, Bachelor of Science (Science)¹
 ROBERT HERMAN KLAMT, Bachelor of Science (Agriculture)
 FRANCES GRACE KLANK, Bachelor of Arts (Liberal Arts)
 CARROL AARON KLIEN, Bachelor of Science (Architecture)
 EMMA ADELE KLEINAU, Bachelor of Arts (Liberal Arts)
 CHARLES GORR KLOPP, Bachelor of Science (Mechanical Engineering)
 HARRY FARRAR KNAPPENBERGER, Bachelor of Science (Architecture)
 PAUL KENNETH KNIGHT, Bachelor of Arts (Commerce)
 CARY LEE KNODLE, Bachelor of Science (Mechanical Engineering)
 CORNELIUS WALTER KOEBELE, Bachelor of Science (Civil Engineering)
 HENRY MICHAEL KOLL, Bachelor of Science (Electrical Engineering)
 FRANK ALEXANDER KOPF, Bachelor of Arts (Science)
 FRIEDA ELIZABETH KORTH, Bachelor of Arts (Liberal Arts)
 AGNES ROSE KOUPAL, Bachelor of Arts (Liberal Arts)
 GARABET HOVANESS KOUYOUMJIAN, Bachelor of Science (Electrical Engineering)
 ARTHUR ENDRES KRAECHMANN, Bachelor of Science (Agriculture)
 ELIE SPENCER KRIEGH, Bachelor of Science (Mechanical Engineering)
 RICHARD WALKER KRITZER, Bachelor of Arts (Commerce)
 LEO PETER KURT, Bachelor of Science (Mechanical Engineering)
 KATE LACKEY, Bachelor of Arts (Liberal Arts)
 WILLIAM STANTON LADD, Bachelor of Science (Agriculture)
 LLOYD E LAMKINS, Bachelor of Science (Agriculture)¹
 RUTH ELLEN LANCASTER, Bachelor of Arts (Liberal Arts)¹
 ORAL ALBERT LANSCH, Bachelor of Science (Electrical Engineering)
 JESS CHARLES LARGENT, Bachelor of Science (Architectural Engineering)
 IRVING NICHOLAS LARSON, Bachelor of Science (Architectural Engineering)
 RAYMOND VICTOR LARSON, Bachelor of Science (Agriculture)
 CHARLTON PAGE LATHROP, Bachelor of Science (Agriculture)
 MARY JANE LAWLESS, Bachelor of Arts (Liberal Arts)
 NELSON LAWNIN, Bachelor of Science (Mechanical Engineering)
 EDGAR ALFRED LAWRENCE, Bachelor of Science (Civil Engineering)
 JOEL WILLIAM LAWS, Bachelor of Science (Agriculture)
 MAC E LEACH, Bachelor of Arts (Liberal Arts)¹
 PAUL JACKSON LEACH, Bachelor of Science (Agriculture)
 LEROY WILLIAM LEGERWOOD, Bachelor of Science (Architectural Engineering)
 ELLENA LEE, Bachelor of Science (Agriculture)
 WILKIE WRIGHT LEGGETT, Bachelor of Arts (Liberal Arts)
 ROY WALTER LEIBSLE, Bachelor of Science (Architecture)
 WAYNE SNYDER LEIGHTY, Bachelor of Science (Agriculture)
 ROY EDWARD LEKANDER, Bachelor of Science (Civil Engineering)
 EDGAR GUY LEMMON, Bachelor of Arts (Liberal Arts)
 NORMAN JOSEPH LENHART, Bachelor of Arts (Commerce)
 CLARENCE ALONZO LENTZ, Bachelor of Arts (Science)
 CHESTER WILLIAM LENZING, Bachelor of Science (Science)¹
 EARL EMANUEL LIRMAN, Bachelor of Science (Ceramic Engineering)

¹With thesis.

IRENE LILLIAN LIGGETT, Bachelor of Arts (Liberal Arts)
 MARCELLO FRANCISCO DE LIMA, Bachelor of Science (Civil Engineering)
 CLOVIS WARD LINCOLN, Bachelor of Science (Mechanical Engineering)
 SVEN CYRIL LINDER, Bachelor of Science (Ceramics)
 HORACE WILLARD LINDSAY, Bachelor of Science (Electrical Engineering)
 CARRIE EDNA LINNELL, Bachelor of Arts (Liberal Arts)
 CLYDE MAURICE LINSLEY, Bachelor of Science (Agriculture)
 CHARLES REEVES LITTLE, Bachelor of Arts (Commerce)
 RUTH FLAGG LIVESAY, Bachelor of Arts (Liberal Arts)
 JOHN ORAS LONG, Bachelor of Arts (Liberal Arts)
 HAROLD BENJAMIN LOTZ, Bachelor of Science (Architectural Engineering)
 CLIFFORD SHARON LOVE, Bachelor of Science (Agriculture)
 MARY ELIZABETH LOVE, Bachelor of Arts (Liberal Arts)
 CHE TSING LU, Bachelor of Science (Mining Engineering)
 BENJAMIN EDWARD LUDVIK, Bachelor of Arts (Liberal Arts)¹
 LESTER JOHN LUDWIG, Bachelor of Arts (Commerce)
 LESLIE ROBERT LUMLEY, Bachelor of Science (Agriculture)
 MERLE FRANCIS LUMMIS, Bachelor of Arts (Science)
 GEORGE RICHARD LUNDE, Bachelor of Science (Agriculture)
 ANDREW VICTOR THEODOR LUNDGREN, Bachelor of Science (Architectural Engineering)
 EDGAR EMMANUEL LUNGREN, Bachelor of Science (Science)¹
 RICHARD DANA LYMAN, A.B., Bachelor of Science (Agriculture)
 JOHN BOYD LYON, Bachelor of Science (Ceramics)
 CARRIE PAY LYONS, Bachelor of Arts (Liberal Arts)
 HAZEL SIBYL LYONS, Bachelor of Arts (Liberal Arts)
 MAY ELIZABETH McADAMS, Bachelor of Science (Agriculture)
 LEO GAY McAFEE, Bachelor of Arts (Commerce)
 MILES JOHN McCLELLAND, Bachelor of Science (Architecture)
 WINIFRED LEO McCCLURE, Bachelor of Arts (Liberal Arts)
 ALVA ELISHA MCCOY, Bachelor of Science (Agriculture)
 WENDELL KEMP McCracken, Bachelor of Arts (Commerce)
 CHARLES WILLIAM McCUMBER, Bachelor of Science (Architectural Engineering)
 ALEXANDER PAUL MACDONALD, JR., Bachelor of Science (Agriculture)
 ROBERT E McDOWELL, Bachelor of Science (Agriculture)
 WILLIAM THOMAS McELVEEN, JR., Bachelor of Arts (Commerce)
 DUMAS MILLER McFALL, Bachelor of Arts (Liberal Arts)
 GUY ENNIS MCGAUGHEY, Bachelor of Arts (Liberal Arts)
 FRANCES JEAN MACINNES, Bachelor of Science (Agriculture)¹
 HARRY WOODINGTON MACKECHNIE, Bachelor of Arts (Science)
 JOSEPH MOORE McKEON, Bachelor of Science (Municipal and Sanitary Engineering)
 JOHN LEO McNALLY, Bachelor of Arts (Science)
 HELEN LOUISE MADDEN, B.Mus., Bachelor of Arts (Liberal Arts)
 HARRY SAMUEL MAHOOD, Bachelor of Science (Civil Engineering)
 PAULINE GERMAINE MALOIT, Bachelor of Arts (Liberal Arts)
 CHARLES FREDERIC MANSFIELD, Bachelor of Science (Agriculture)
 HAZEL FRANCES MARKS, Bachelor of Arts (Liberal Arts)
 RALPH WILLIAM MARSHALL, Bachelor of Arts (Liberal Arts)
 FAY WALDO MARTIN, Bachelor of Arts (Commerce)
 ARTHUR HELGESON MASON, Bachelor of Arts (Commerce)
 ROSS SEGUNE MASON, Bachelor of Science (Mechanical Engineering)
 HOWARD WILSON MATEER, Bachelor of Science (Electrical Engineering)
 WILLIAM B MATHEWS, Bachelor of Arts (Science)
 LEO JOSEPH MATTINGLY, Bachelor of Science (Architectural Engineering)
 HUGH NELSON MAYOR, Bachelor of Science (Architectural Engineering)
 ARTHUR EDWARD MEALIFF, Bachelor of Science (Agriculture)
 OLLIVE MYRTLE MENELEY, Bachelor of Music
 JOHN RILEY MERRIMAN, Bachelor of Science (Agriculture)
 LOUIS EDWARD MESENKAMP, Bachelor of Arts (Science)
 ARTHUR MAURICE METZLER, Bachelor of Arts (Commerce)
 CARL THEODORE MEYER, Bachelor of Science (Architecture)
 RUSSELL WARD MILLAR, Bachelor of Science (Science)¹
 DANIEL EDWIN MILLER, Bachelor of Science (Mechanical Engineering)
 ELLIOTT STRONG MILLER, Bachelor of Arts (Commerce)
 ERWIN FRANKLIN MILLER, Bachelor of Science (Architecture)
 FRED RANEY MILLER, Bachelor of Arts (Liberal Arts)
 JOSEPH HARRISON MILLER, Bachelor of Science (Civil Engineering)
 RICHARD BARDWELL MILLIN, Bachelor of Science (Agriculture)
 JOHN TURNER MILLS, Bachelor of Science (Agriculture)
 HENRY MINER, Bachelor of Science (Agriculture)
 LEMUEL ERNEST MINNIS, Bachelor of Science (Agriculture)
 ELSIE LOUISE MITCHELL, Bachelor of Science (Agriculture)
 GRACE MITCHELL, Bachelor of Arts (Liberal Arts)
 HARRY MOHLMAN, Bachelor of Science (Agriculture)
 RAYMOND MOONEY, Bachelor of Science (Electrical Engineering)
 LEWIS ALBERT MOORE, Bachelor of Science (Agriculture)
 WILLIAM ABNER MOORE, Bachelor of Arts (Liberal Arts)
 TRUMAN PHARAOH MOOTE, Bachelor of Science (Civil Engineering)
 JOHN WILLIAM MORGAN, Bachelor of Arts (Science)
 RALPH WALDO MORGAN, Bachelor of Science (Science)¹
 THOMAS SHERMAN MORGAN, Bachelor of Arts (Liberal Arts)
 LESLIE SHERMAN MORRILL, Bachelor of Science (Mechanical Engineering)
 ROBERT LOUIS MOSES, Bachelor of Science (Agriculture)
 OLGA FERN MOSER, B.Mus., Bachelor of Arts (Liberal Arts)

¹With thesis.

LEOTA IRENE MOSIER, Bachelor of Arts (Liberal Arts)
 JULIA LOUISE MOTTIER, Bachelor of Arts (Liberal Arts)
 WILL WALTER MOUNTS, Bachelor of Science (Agriculture)
 HARVEY LOUIS MUELLER, Bachelor of Science (Science)¹
 HENRY ROLLO MUELLER, A.B., Bachelor of Science (Agriculture)
 HERBERT ZOLLER MUELLER, Bachelor of Science (Electrical Engineering)
 LOUIS EDWARD MULAC, Bachelor of Science (Mechanical Engineering)
 EVERETT FRANKLIN MURPHY, Bachelor of Science (Agriculture)
 HOWARD DAWSON MURPHY, Bachelor of Science (Agriculture)
 MARY AGNES MURPHY, Bachelor of Music
 RUTH ISABEL MUSSENDEN, Bachelor of Arts (Liberal Arts)
 WALDO RAY MYERS, Bachelor of Arts (Commerce)
 NRIPENDRA KUMAR NAG, Bachelor of Science (Electrical Engineering)
 VETA THORPE NEBEL, Bachelor of Arts (Liberal Arts)
 ADOLPH LINCOLN NELSON, Bachelor of Science (Mechanical Engineering)
 OLIVER JOHN NESLAGE, Bachelor of Science (Mechanical Engineering)
 FLORIS WILSON NICHOLS, Bachelor of Arts (Commerce)
 YIN HSIANG NIU, Bachelor of Science (Railway Mechanical Engineering)
 JOSEPH MORGAN NOBLE, Bachelor of Arts (Liberal Arts)
 ALBERT JOSEPH NOLAN, Bachelor of Science (Agriculture)
 ALFRED NORBERG, Bachelor of Science (Civil Engineering)
 CLYDE JAMES NORTH, Bachelor of Science (Agriculture)
 CHIVOZI OHINATA, Bachelor of Arts (Commerce)
 CARLTON FREDERICK OLSEN, Bachelor of Science (Mechanical Engineering)
 GLEN ELIZABETH OPIE, Bachelor of Arts (Liberal Arts)
 PAULINE THEODORA OSBORNE, Bachelor of Arts (Liberal Arts)
 DAVID LEE OTT, Bachelor of Science (Mechanical Engineering)
 CHARLES NORTON OWEN, Bachelor of Science (Mechanical Engineering)
 HARRY LEA OWEN, Bachelor of Science (Agricultural Engineering)
 KENNETH WARREN PARKINSON, Bachelor of Science (Agriculture)
 JOHN BEITNER PAGIN, Bachelor of Science (Mechanical Engineering)
 WILLIAM LOVE PARISH, Bachelor of Science (Architectural Engineering)
 MUKAND LALL PATHAK, Bachelor of Science (Electrical Engineering)
 ADOLPH FREDERICK PAULI, Bachelor of Arts (Liberal Arts)¹
 BERNICE F PEADRO, Bachelor of Arts, (Liberal Arts)
 RICHARD HENRY PERROTT, Bachelor of Arts (Science)
 ELEANOR SARAH PETERSON, Bachelor of Science (Agriculture)
 WILLIAM CHANDLER PETERSON, Bachelor of Science (Architecture)
 ERIC FREDERIC PHILGARD, Bachelor of Science (Architecture)
 JOHN FRANCIS PICKEN, Bachelor of Science (Agriculture)
 WALTER RAYMOND PIERSON, Bachelor of Arts (Commerce)
 FRED THEODORE PINKNEY, Bachelor of Science (Science)
 VELMA COE PLETCHER, Bachelor of Arts (Liberal Arts)
 HAROLD AUSTIN POGUE, Bachelor of Arts (Commerce)
 ALEXANDER HYMAN POLAKOW, Bachelor of Science (Science)¹
 ELLIS J POTTER, Bachelor of Science (Architecture)
 JAMES BRUCE PRATT, Bachelor of Arts (Commerce)
 ALVIN FRED PRESTON, Bachelor of Science (Agriculture)
 CHARLES BRADLAW PRICE, Bachelor of Science (Agriculture)
 JAMES KELLEY PRIMM, Bachelor of Arts (Science)
 PHILIP TIMON PRIMM, Bachelor of Science (Agriculture)
 WILLIAM JOSEPH PRINCE, Bachelor of Arts (Science)
 DUANE WILLARD PROPST, Bachelor of Arts (Science)
 EUGENE FRANCIS PRUETT, Bachelor of Science (Agriculture)
 IRENE EMMA PULSIPHER, Bachelor of Science (Agriculture)
 RUTH LUCILLE QUESENBERRY, Bachelor of Arts (Liberal Arts)
 BENJAMIN HARRISON QUESTEL, Bachelor of Science (Agriculture)
 ANITA EMMA RAAB, Bachelor of Arts (Liberal Arts)
 ROBERT CHARLES RAHN, Bachelor of Science (Ceramic Engineering)
 FRANK RAFFOWITZ, Bachelor of Science (Mechanical Engineering)
 CLAUDE RAIBOURN, Bachelor of Arts (Commerce)
 ISAAC LAGRANGE RATCLIFFE, Bachelor of Arts (Commerce)
 LEAL WILEY REESE, Bachelor of Arts (Liberal Arts)
 GEORGE W RENWICK, Bachelor of Science (Mechanical Engineering)
 ORA EDGAR REYNOLDS, Bachelor of Arts (Liberal Arts)
 CARLYLE SEEDS RHODES, Bachelor of Science (Civil Engineering)
 GRANVILLE LEROY RIGG, Bachelor of Science (Agriculture)
 CHARLES LAWRENCE RITTS, Bachelor of Science (Architecture)
 FRANCES ELLA ROBERTS, Bachelor of Arts (Liberal Arts)
 HUGH SCHUYLER ROBERTSON, Bachelor of Science (Ceramic Engineering)
 ALBERT WILLIAM ROBINSON, Bachelor of Science (Mechanical Engineering)
 WILLIAM OTTO ROESSLER, Bachelor of Science (Agriculture)
 GARDNER SPENCER ROGERS, Bachelor of Science (Agriculture)
 HARRY THOMAS ROGERS, Bachelor of Science (Architectural Engineering)
 RUSSELL DAVID ROGERS, Bachelor of Science (Architectural Engineering)
 WALTER LOUIS ROHLFING, Bachelor of Science (Agriculture)
 FRED ANDREW ROHN, Bachelor of Science (Architectural Engineering)
 KIMBALL VALENTINE ROOT, Bachelor of Arts (Science)
 HAROLD BOONE ROSE, Bachelor of Science (Mechanical Engineering)
 FRANK ROSENBERG, Bachelor of Science (Ceramic Engineering)
 KENNETH DWIGHT ROSS, Bachelor of Arts (Commerce)
 HOWARD MOORE ROTROCK, Bachelor of Science (Civil Engineering)
 FRED GRAFTON ROUNDS, Bachelor of Science (Architecture)

¹ With thesis.

ELLEN MARY ROURKE, Bachelor of Arts (Liberal Arts)
 JOSEPH ALVIN RUEFF, Bachelor of Science (Mechanical Engineering)
 MABEL LOUISE RUEHE, Bachelor of Music
 MARY HILLIARD RUMSEY, Bachelor of Arts (Liberal Arts)
 HOWARD EDWARD RUNDLE, Bachelor of Science (Railway Electrical Engineering)
 WILLIAM LLOYD RUNDLES, Bachelor of Science (Agriculture)
 ROY LESLIE RUSH, Bachelor of Arts (Liberal Arts)
 LOUIS JOHN RUST, Bachelor of Science (Electrical Engineering)
 BURCH IRWIN RUTLEDGE, Bachelor of Arts (Science)
 FREDIA IRMA SAMUELS, Bachelor of Arts (Liberal Arts)
 HARRIET ADELAIDE SANFORD, Bachelor of Arts (Liberal Arts)
 ALBERT MERRITT SANTIEE, Bachelor of Arts (Liberal Arts)
 EDGAR FREDERICK SCHAEFFER, Bachelor of Arts (Liberal Arts)¹
 MICHAEL ANDREW SCHALCK, Bachelor of Science (Agriculture)
 GILBERT SIMON SCHALLER, Bachelor of Science (Mechanical Engineering)
 RALPH WENDELL SCHECTER, Bachelor of Arts (Liberal Arts)
 DONALD CHARLES SCHEELE, Bachelor of Science (Mechanical Engineering)
 LOUIS HERMAN SCHICKEDANZ, Bachelor of Science (Mechanical Engineering)
 RALPH LOUIS SCHIESSWOHL, Bachelor of Arts (Commerce)
 EDWARD HOLMES SCHLADER, Bachelor of Science (Railway Electrical Engineering)
 WALDO LAUFF SCHLUETER, Bachelor of Arts (Commerce)
 KARL WILLIAM SCHMIDT, Bachelor of Science (Architectural Engineering)
 RAYMOND STANLEY SCHOLL, Bachelor of Science (Agriculture)
 DON BUEL SCHULER, Bachelor of Science (Architecture)
 ERNEST RUDOLPH SCHULZ, Bachelor of Science (Agriculture)
 LINCOLN BAIN SCOTT, Bachelor of Science (Agriculture)
 SHIRLEY EDWARD SCOTT, Bachelor of Arts (Liberal Arts)
 WINFIELD SCOTT, Bachelor of Science (Agriculture)
 HERBERT FRANK SEIFERT, Bachelor of Arts (Science)
 ARTHUR GEORGE SEIFRIED, Bachelor of Science (Agriculture)
 WILLIAM HEINE SELLARDS, Bachelor of Science (Agriculture)
 ARTHUR TRUMAN SEMPLE, Bachelor of Science (Agriculture)
 LYLE ELWOOD SEVERANCE, Bachelor of Science (Agriculture)
 MAE MAGDALEN SEXAUER, Bachelor of Arts (Liberal Arts)
 ROLLA FLEMMING SHAFFER, Bachelor of Science (Agriculture)
 RAY IRIS SHAWL, Bachelor of Science (Agriculture)
 A VERNON SHEETZ, Bachelor of Arts (Commerce)
 EDWIN SHELBY, JR., Bachelor of Science (Civil Engineering)
 EARL FRANK SHELBY, Bachelor of Science (Civil Engineering)
 WALTER WILLIAM SHELDEN, Bachelor of Arts (Commerce)
 HENRY KELLOGG SHELTON, Bachelor of Science (Electrical Engineering)
 JOHN ERWIN SHIELDS, Bachelor of Science (Agriculture)
 FRANKLIN WILLIAM SHILLING, Bachelor of Arts (Commerce)
 JAMES WRIGHT SHOEMAKER, Bachelor of Arts (Liberal Arts)
 HORACE ABBOTT SHONLE, Bachelor of Science (Science)¹
 EDWARD OLAF SIEGFRIED, Bachelor of Science (Architectural Engineering)
 OSCAR SILBERMAN, Bachelor of Science (Civil Engineering)
 THEODORE SWITZER SIMMONS, Bachelor of Science (Agriculture)
 MARY ALICE SIMPSON, Bachelor of Science (Agriculture)
 WILLIAM HENRY SIMMS, JR., Bachelor of Science (Agriculture)
 RAYMOND SAMUEL SIMONS, Bachelor of Arts (Science)
 CHARLES LEONARD SKELTON, Bachelor of Science (Agriculture)
 HERBERT LEE SLACK, Bachelor of Science (Civil Engineering)
 WILLIAM FINLEY SLOAN, Bachelor of Science (Agriculture)
 LIONEL DAVID SMILEY, Bachelor of Science (Electrical Engineering)
 CHARLES EUGENE SMITH, Bachelor of Science (Civil Engineering)
 GLENN CALVIN SMITH, Bachelor of Science (Agriculture)
 HELEN MAY SMITH, Bachelor of Arts (Liberal Arts)
 HERBERT EDGAR SMITH, Bachelor of Arts (Liberal Arts)
 IRENE FERN SMITH, Bachelor of Science (Science)¹
 JULIAN FRANCIS SMITH, Bachelor of Science (Science)¹
 WILHELMA ZOE SMITH, Bachelor of Arts (Liberal Arts)
 RAYMOND LEFFEL SNODDY, Bachelor of Arts (Liberal Arts)¹
 GLENN SNYDER, Bachelor of Science (Agriculture)
 WALTER ANDREW STAHL, Bachelor of Science (Mechanical Engineering)
 JOHN EDWIN STARK, Bachelor of Arts (Liberal Arts)
 ALVIN GUSTAV STEINMAYER, Bachelor of Science (Electrical Engineering)
 REINHARD AUGUST JOHN STEINMAYER, Bachelor of Science (Ceramics)
 EDITH HASSELTINE STEVENS, Bachelor of Science (Agriculture)
 RITA STINSON, Bachelor of Science (Agriculture)
 JAMES CREAR STIRTON, Bachelor of Science (Civil Engineering)
 HARRY FREDERICK STOCKER, Bachelor of Science (Civil Engineering)
 CLARENCE MILTON STOFFEL, Bachelor of Science (Civil Engineering)
 ALBERT GETTEN STONE, Bachelor of Science (Architectural Engineering)
 WILLIAM AUGUSTUS STRONG, A.B., Bachelor of Science (Agriculture)
 ELMER HENRY STUMPF, Bachelor of Arts (Commerce)
 ROY DEHM SUNDELL, Bachelor of Science (Mechanical Engineering)
 RAY MALCOLM STRICKLAND, Bachelor of Science (Agriculture)
 DOROTHY SUTCLIFFE, Bachelor of Arts (Liberal Arts)
 WILBOR MILLS SUTHERLAND, Bachelor of Science (Agriculture)
 FRANK HOWARD SUTTON, Bachelor of Arts (Commerce)
 FRANCES ELEANOR SWANSON, Bachelor of Arts (Liberal Arts)
 NORVID RAYMOND SWANSON, Bachelor of Science (Agriculture)

¹With thesis.

EDGAR CHESSMAN SWARTWOUT, Bachelor of Science (Agriculture)
 LEWIS WENTWORTH SWETT, Bachelor of Science (Electrical Engineering)
 NELLIE MAY SWICK, Bachelor of Arts (Liberal Arts)
 MARGUERITE MAUDE SWITS, Bachelor of Arts (Liberal Arts)
 CLEMENTINE TAGGART, Bachelor of Arts (Liberal Arts)
 ROBERT ISAAC TERRY, Bachelor of Science (Agriculture)
 OLGA ELIZABETH THAL, Bachelor of Arts (Liberal Arts)
 ABNER ROYCE THOMAS, Bachelor of Science (Agriculture)
 CLAIR JOEL THOMAS, Bachelor of Science (Agriculture)
 POLLY ELIZABETH THOMAS, Bachelor of Arts (Liberal Arts)
 RALPH RAYMOND THOMAS, Bachelor of Science (Electrical Engineering)
 LILLIAN MAUDE THOMPSON, Bachelor of Arts (Liberal Arts)
 FRANK HILTON THORNE, Bachelor of Science (Agriculture)
 WALTER JOSEPH TILTON, Bachelor of Science (Science)¹
 IRENE TOWSON, Bachelor of Arts (Liberal Arts)
 ELIZABETH LAIL TRACY, Bachelor of Arts (Liberal Arts)
 GLADYS ANNIE TREAT, Bachelor of Science (Agriculture)
 CHESTER TREISCHER, Bachelor of Science (Ceramics)
 MAX RUDOLPH HENDRICK TREU, Bachelor of Science (Agriculture)¹
 FRANCES IRENE TRITT, Bachelor of Arts (Liberal Arts)
 PHILIP THEODORE TROEGER, Bachelor of Science (Agriculture)
 OPAL WINIFREDE TROST, Bachelor of Science (Agriculture)
 OLIVER JOHN TROSTER, Bachelor of Science (Agriculture)
 CHARLES EDGAR TROWBRIDGE, Bachelor of Science (Municipal and Sanitary Engineering)
 FLOYD ELSWORTH TROXEL, Bachelor of Science (Mechanical Engineering)
 SILAS MAX TRUMBO, Bachelor of Science (Architectural Engineering)
 JAMES OLIVER TUPPER, Bachelor of Science (Agriculture)
 LOTTIE OCTAVIA URBAIN, Bachelor of Arts (Liberal Arts)
 GERRY CHRISTOPHER VANDENBOOM, Bachelor of Science (Mechanical Engineering)
 ELLIOTT DUDLEY VANFRANK, Bachelor of Science (Architecture)
 FRANCIS MARION VANNATTER, Bachelor of Arts (Science)
 RODMAN FLEMING VANSANT, Bachelor of Science (Agriculture)
 MYRA VAUGHN, Bachelor of Arts (Liberal Arts)
 RALPH HOYT VIAL, Bachelor of Science (Agriculture)
 SIEGFRIED NATHANIEL VIBELIUS, Bachelor of Science (Architecture)
 HERBERT LOUIS VOIGT, Bachelor of Science (Civil Engineering)
 ALVIN CLAUDE VOLK, Bachelor of Science (Civil Engineering)
 LAURENCE ELMER VOORHEES, Bachelor of Arts (Science)
 CLIFTON JAMES WALKER, Bachelor of Science (Civil Engineering)
 GEORGE WILLIAM WALKER, Bachelor of Science (Agriculture)
 JENNIE GRACE WALKER, Bachelor of Arts (Liberal Arts)
 LEWIS BRYANT WALLACE, Bachelor of Arts (Commerce)
 MARIE ELIZABETH WALLIN, Bachelor of Arts (Liberal Arts)
 WESLEY BURNHAM WALRAVEN, Bachelor of Science (Civil Engineering)
 IDA EMILIE WALZ, Bachelor of Arts (Liberal Arts)¹
 TE CHANG WANG, Bachelor of Science (Agriculture)
 AMY WARD, Bachelor of Arts (Liberal Arts)
 HARPER MCDILL WARNOCK, Bachelor of Science (Agriculture)
 JOHN WESLEY WATSON, Bachelor of Science (Agriculture)
 LELIA ELTA WATSON, Bachelor of Arts (Liberal Arts)
 JASPER KENT WEBB, B.S., Bachelor of Science (Agriculture)
 GERTRUDE T WEBBER, Bachelor of Arts (Science)
 HARRY EDWIN WEBBER, Bachelor of Science (Architectural Engineering)
 EDWARD GROVER WEILER, Bachelor of Science (Electrical Engineering)
 FLORA JANE WEINBERG, Bachelor of Science (Agriculture)
 EMIL HJALMER WESTLUND, Bachelor of Arts (Commerce)
 HAZEL DEAN WHEATON, Bachelor of Arts (Liberal Arts)
 MARY ELIZABETH WHEELHOUSE, Bachelor of Arts (Liberal Arts)
 HELEN KATHERINE WHIPPLE, Bachelor of Arts (Liberal Arts)
 HELEN MARGARET WHITCHURCH, Bachelor of Science (Agriculture)
 FRANK HERBERT WHITE, JR., Bachelor of Science (Electrical Engineering)
 GEORGE RICHARD WHITE, Bachelor of Science (Architectural Engineering)
 LYDE EVANGELINE WHITE, Bachelor of Arts (Commerce)
 PHARES LEMAR WHITE, Bachelor of Science (Railway Mechanical Engineering)
 GUYON CALL WHITLEY, Bachelor of Arts (Commerce)
 ROBERT ERNEST WILEY, Bachelor of Science (Mechanical Engineering)
 MARY ETTA WILLS, Bachelor of Arts (Liberal Arts)
 ALFRED DAVID WILSON, Bachelor of Science (Agriculture)
 HAROLD EDWIN WILSON, Bachelor of Science (Mechanical Engineering)
 HELEN MAY WILSON, Bachelor of Arts (Liberal Arts)
 ISABELLA CHILTON WILSON, Bachelor of Arts (Liberal Arts)
 ORION N WING, Bachelor of Arts (Liberal Arts)
 MORRIS CHARLES WINOKUR, Bachelor of Science (Railway Civil Engineering)
 INGAL ENSOR WOLD, Bachelor of Science (Agriculture)
 MITCHELL WOLTER, Bachelor of Arts (Liberal Arts)
 ADELINE WOOD, Bachelor of Science (Agriculture)
 RACHEL MARGARET WOOLMAN, Bachelor of Science (Agriculture)
 RICHARDINE WOOLMAN, Bachelor of Arts (Liberal Arts)
 CHARLES WILLIAM WRAY, Bachelor of Science (Agriculture)
 AGNES WRIGHT, Bachelor of Arts (Liberal Arts)¹
 DOUGLAS WRIGHT, JR., Bachelor of Science (Agriculture)
 EDWARD PAUL WRIGHT, Bachelor of Science (Civil Engineering)
 JOSEF FRANKLIN WRIGHT, Bachelor of Arts (Commerce)

¹With thesis

GEORGE ALFRED WRISLEY, Bachelor of Science (Science)¹
 ETHEL MARIE WYKLE, Bachelor of Science (Agriculture)
 SOICHI T. YAMAMOTO, Bachelor of Science (Electrical Engineering)
 CARL ALFRED ZELLE, Bachelor of Science (Science)¹
 ARTHUR CHARLES ZIMMERMAN, Bachelor of Science (Architectural Engineering)
 ROBERT BRUCE ZINSE, Bachelor of Arts (Commerce)

THE COLLEGE OF LAW

The Degree of Bachelor of Laws

ELLIOTT BILLMAN	FRED HANFORD KELLY
OLEN ROBERT CLEMENTS, A.B., 1914	RALPH KENSHALO
WALTER THOMAS DAY	ROLAND JOHN KLINGLER
JOHN WILLIAM FREELS	WILBUR EDWARD KREBS
JAMES HARMAN GILBERT	JOSEPH DAYLE LAWYER
DONALD ASHWAY GROSSMAN	CARL KING RANG, A.B., 1914
WILLIAM WARD HART	JOHN LESTER ROBINSON
RAY DAVID HENSON	THOMAS LENOR RUTH
JOSEPH HOWARD HINSHAW, A.B., 1913	LEW R. SARETT, A.B., <i>Beloit College</i> , 1911
CHARLES FRANCIS HOUGH, Jr.	JOE WHITNEL
ROBERT JARNAGIN	

The Degree of Doctor of Law

NUEL DINSMORE BELNAP, A.B., 1914	FRANK CLIFTON SLATER, A.B., 1914
FRANK BONNER LEONARD, Jr., A.B., 1912	FRANK SEWALL STROHEKER, A.B., 1915

THE LIBRARY SCHOOL

The Degree of Bachelor of Library Science

(Without Thesis)

ELSIE LOUISE BAECHTOLD, A.B., *Grinnell College*, 1911
 SUSAN TRUE BENSON, A.B., *Missouri Wesleyan College*, 1909
 JESSIE ELIZABETH BISHOP, A.B., *Smith College*, 1911
 NELLE UREE BRANCH, A.B., 1907
 MARY GLADYS BURWASH, A.B., 1913
 MARIAN LEATHERMAN, A.B., *Cornell University*, 1907
 MARGUERITE MITCHELL, A.B., *Ohio State University*, 1915
 BEATRICE PRALL, A.B., *University of Arkansas*, 1911
 CHARLES HOLMES STONE, B.S., A.M., *University of Georgia*, 1912, 1913
 ALTA CAROLINE SWIGART, A.B., 1910
 MARGARET STUART WILLIAMS, A.B., *University of Texas*, 1912

THE COLLEGE OF MEDICINE

The Degree of Bachelor of Science

RICHARD ELSEPH ANDERSON	GEORGE KOPTIK
FRED ELTON CARPENTER	RAYMOND JOHN MERCEY
SCHUYLER OPP COTTON	THOMAS BENTON MURPHY
BENJAMIN QUINCY DYSART	GEORGE WILLIAM SCHELM
JAMES EDWARD FETHERSTON	EDWARD FRANK SLADEK
LEO VINCENT GATES	GUY LEON WAGONER

The Degree of Doctor of Medicine and Surgery

CONRAD GEORGE APPELLE	EMMET FRANCIS CASEY
ROBERT IRVING BARICKMAN	ALGER ARTHUR CLARK
EDWIN JUDGE BARNETT	BLAINE WILSON CLAYPOOL
ALICK BERNSTEIN	HORACE R. COBB
HANNAH JANE BEATTY	MICHAEL MILTON CODY
J. FRANCIS BENNETT	JAMES SWANEY COOPER, B.S.
CLIFFORD EDWARD BERGIN	WARD COOPER
FRANKLIN CARLISLE BIVINGS	SCHUYLER OPP COTTON
WAREEN CALDWELL BLIM	AUBREY JAMES CROSS
PLINY RUSSELL BLODGETT, B.S.	AGNES BEULAH CUSHMAN
BERNARD JOSEPH BOLKA	LLOYD DAVID CUTTING
ROLLO PRESTON BOURBON	MAURICE DOKTORSKY
ROY MELSON BOWELL	WILLIAM HOLMES DYER
LEWIS EDWIN JOEL BROWNE	FRED ELWELL EAREL
EDWARD ARTHUR BRUCKER	CHARLES PATT ECK, Ph.C., Ph.G.
WESLEY MORGAN BURLING	DAVID EISENBERG
MANLEY JOSEPH CAPRON	LYNN WICKWIRE ELSTON, B.S.
WILLIAM FRANKLIN CARROLL	ARTHUR MORGAN EVANS
ALBERT BROCKWAY CARSTENSEN	BOYD FRANKLIN EYE, Jr.

¹With thesis.

MARION SHELLEY FINK
 VICTOR PINSAND
 ALEXANDER WILLIAM FORDYCE
 SOPHIA HENNRIETTA FREDERICKSON
 L VINCENT GATES
 RUSSELL ADAMS GILMORE
 HAROLD MORTIMER GLOVER, A.B.
 JOHN GERVASE GOGGIN
 BENJAMIN GOLDBERG
 VICTOR HUGO HASEK
 GRACE MAUDE HAWTHORNE, R.N.
 PLACIDO RAMOS VASQUEZ HOMMEL
 ARSHAVID IGNATIUS
 WILLIAM ISRAELSON
 CLARENCE AUGUST JACOBSEN
 LEO JACOB JACOBSON
 WALTER JOHN JARACZ
 DANIEL WILLIAM JEFFRIES
 HARRY KATZ
 RALPH KING
 RALPH GLENN KLINE
 HERMAN CARL KOCH
 BERNARD J KULASAVICZ
 HELEN PEARL KUTZENBERGER
 MAX LAMPERT
 HENRY ROBERT LEIBINGER
 GEORGE R LIPP
 JACOB LIFSCHUTZ
 BRUNO AUGUST LUNG MUS
 ANICETO YLAGAN MANDANAS
 JUAN SIXTO MARCHAN
 HERVEY FULTON MASSON, Ph.C., M.D.
 CORA ARMINTA MATTHEWS
 HUBERT FRANKLIN MEACHAM
 REUBEN ALVORD MOFFETT
 WILLIAM JAMES MULHOLLAND

MARY RUTH MCGUIRE
 MAURY HOLCOMBE MCRAE
 FUSA TARO NAKAYA
 ROCCO NIGRO
 HARRY SIMS NORTON
 JACOB PASKIND
 RALPH WALDO PETERSEN
 HARRY MICHAEL PETERSON
 RALPH HARRISON PINO
 VICTOR PIRO
 WILLIAM BOWKER PRESTON
 WILLIAM RAIM
 HENRY BENJAMIN RAMAN
 JOHN LESTRANGE ROCK, B.S., A.B.
 SAMUEL JOY ROWLAND
 NATHAN SAMUEL SCHIFF
 ABRAHAM SELETZ
 JAMES MELVIN SEYERSON
 ROY DAVIS SHORT
 WILLIS IRVING SILVERSTEIN
 LLOYD EMERSON SMITH
 ARTHUR KERN SPIERING
 JACOB STERN
 LOUIS HENRY STERN
 LADISLAW STOLFA
 SAMUEL JACK TAUB
 IAN DAVIS TIEDEMAN
 RUSSELL R TOMLIN
 CHARLES LEWIS TOMSU
 JOEL EDWIN TOOTHAKER
 MARDIROS BEDROS VART
 ATHOL HORATIO WEDGE
 HARRY HULTS WILSON
 MARCUS BRYED WILSON
 PAUL JACOB WGLF

THE COLLEGE OF DENTISTRY

The Degree of Doctor of Dental Surgery

HERBERT RALPH ALDEN
 HAROLD HANNUM BERMAN
 NATHAN M BERNSTEIN
 LUTHER LINCOLN BLAINE
 MAHRICE IRWIN BLAIR
 THOMAS CHEW BONNEY
 EDWARD JOSEPH BOSTIK
 HAROLD SCRIBNER CONDIT
 WILLIAM ARTHUR CUSICK, Jr.
 ROBERT JESSE DIXSON
 HARRY M HARNICK
 KIYOSHI HORIUCHU
 ROBERT I HUMPHREY
 JACOB JESSER
 ERNEST GARFIELD JOHNSON
 EARL E JOHNSON

LAWRENCE MARTIN KOCH
 LOUIS BERNARD KOUSNETZ
 ANDREW ARTHUR LITSCHER
 LOUIS C LOWENTHAL
 LOUIS FRANCIS MEIER
 CHARLES J MCCORNALL
 LEO ORLOFF
 HAROLD L PLAYMAN
 ALLGOT G PERSON
 HENRY REISEMAN
 CAMILLE MARIE RICHTER
 NOAH WEBSTER SCHLUSSEL
 VICTOR HUGO SEARS
 PEPPER WHEELER SMITH
 ROSCOE WINTERS UPP
 MAXWELL T WOOD

THE SCHOOL OF PHARMACY

Conferred April 19, 1916, in Chicago

Graduate in Pharmacy

FANNIE LILLIAN ARON
 WILLIAM BECKMAN
 ASHER HOLLAND BOGARD
 JOSEPH C BUTTS
 ROBERT CLAUS
 DANTE CORTESI
 RAYMOND JAMES CRIST
 RAYMOND ANDERSON CURLEE
 CHARLES ELMER DAVIDSON
 EVERETT WILLIAM DEWEY
 WILLIAM JOHN FRIEDL
 HARRY GASEN
 FRANK WILLIAM GRAHAM
 ROBERT LEE GREENWOOD
 WALTER JOHN KOSTKA
 DAVID LOFGREN
 BENJAMIN LOWIS
 ISRAEL MAWRENCE
 LEONARD QUARTETTI
 ROBERT BRUCE RITZMAN

ERNEST CHRISTIAN SCHULTZ
 JAMES WILLIAM TEMPLETON
 RALPH RICKEY THOROMAN
 EDWIN JOSEPH UNDERRINER
 LELAND VALE
 ROBIE ROLLAND WEAVER
 WERNER FRED WILHELM
 GUY VERNON WHITNEY
 EDWARD A F BORUCKI (Class of 1915)
 WILLIAM STUHLMANN BUCKE (Class of 1915)
 RICHARD WILLIAM GOLTERMANN (Class of 1915)
 SYLVESTER HENRY HOJNACKI (Class of 1915)
 HUBERT SPANGLER HUSTON (Class of 1914)
 OSCAR WILLIAM JOHNSON (Class of 1915)
 EDWARD JOSEPH KRAL (Class of 1915)
 JOSEPH BENJAMIN KVASNICKA (Class of 1915)
 FRANCIS A PANKAU (Class of 1914)
 EDWIN ROBERT RIEMER (Class of 1915)
 FRANK JOSEPH VONDRASEK (Class of 1915)

The Degree of Pharmaceutical Chemist

Conferred May 27, 1916, in Chicago

ANTHONY DI COSOLA

ALBERT ALVIN ORTMANN

THE GRADUATE SCHOOL

The Degree of Master of Arts

In Botany

ROBERT LESLEY DAVIS, A.B. (*University of Nebraska*) 1914
JOHN MARVIN LECATO, A.B. (*University of Michigan*) 1913
ROSE SMITH, A.B., 1911

In Chemistry

EDMAN GREENFIELD, A.B. (*University of Kansas*) 1914
CARL SHIPP MARVEL, A.B. (*Illinois Wesleyan University*) 1915
ERNEST HENRY VOLLWEIBER, A.B. (*Miami University*) 1914

In Classics

MARY VIOLA BRUNER, A.B., 1913
MARY ELIZABETH COLCORD, A.B. (*Greenville College*) 1910
MICHAEL VELMA JAMISON, A.B. (*Northwestern University*) 1912
MARGARET OLMSTED, A.B. (*Augustana College*) 1915
MARY LUELLA TROWBRIDGE, A.B., 1915

In Economics

WILLIAM HENRY DREESEN, A.B. (*Greenville College*) 1907
MAURICE ELZIN MURPHY, A.B. (*Indiana University*) 1913

In Education

JEANNETTE MORRISON ENGLE, A.B., 1915
THEODORE SPAFFORD HENRY, A.B. (*Hedding College*) 1913
OTTIS HOSKINSON, A.B. (*Union Christian College*) 1900
MARY HAZEL MELROSE, A.B., 1910
JOHN BREEN PHILLIPS, A.B., 1912
TENJES HENRY SCHUTTE, A.B., 1912

In Entomology

JAMES LOWELL HYPES

In History

DAISY DEAN DRYDEN, A.B. (*University of Kansas*) 1905
WALTER WILSON JENNINGS, A.B., 1915
KATHRYN MADDOCK, A.B. (*Rockford College*) 1915
LAURA MCALLISTER MOORE, A.B. (*Indiana University*) 1892
HELEN KATHERINE SCHOEPFERLE, A.B., 1915
HELEN DALE STORY, A.B. (*Monmouth College*) 1912
MABEL GREGORY WALKER, A.B., 1909

In Mathematics

WILLIAM HENRY CULLUM, JR., A.B. (*Albion College*) 1915
MARY BELLE DAVIS, A.B., 1901
KATE LACKEY
ROBERT HASKELL MARSHALL, A.B., 1914
MERLIN GRANT SMITH, A.B. (*Greenville College*) 1915

In Modern Languages

(In English)

CLYDE BYRON BECK, A.B. (*Earlham College*) 1906
LEVETTE JAY DAVIDSON, A.B. (*Eureka College*) 1915
EFFIE MARGUERITE MORGAN, A.B. (*James Millikin University*) 1913
JAMES MANLEY PHELPS, A.B. (*Northwestern University*) 1912
EDITH IRENE SENDENBURGH, A.B., 1913
THOMAS BLAINE STANLEY, A.B. (*Earlham College*) 1913
ANNETTE STEELE, A.B. (*Transylvania University*) 1911
MERLE ARTHUR SWENEY, A.B. (*Hedding College*) 1913

(In German)

OLIVE CAROLINE HARRIS, A.B. (*Hedding College*) 1915
ETHEL LOUISE O'CONNOR, A.B. (*Hedding College*) 1915

(In Romance Languages)

OTHO WILLIAM ALLEN, A.B., 1915

In Philosophy

HARRY AMSTERDAM, A.B. (*Lake Forest College*) 1915

In Physics

CHARLES FRANCIS HILL, A.B., 1914
 ELEANOR FRANCES SEILER, A.B., A.M. (*University of Denver*) 1913, 1914

In Political Science

A ERNEST MAHANNAH, A.B. (*Fairmount College*) 1914

In Sociology

WILLIAM MORLAND GRAHAM, B.S. (*McKendree College*) 1913
 CARRIE PATTON CLARK, A.B. (*Northwestern University*) 1909

In Zoology

RACHEL ANN BAUMGARTNER, A.B. (*University of Kansas*) 1912
 LILLIAN DORA DOLE, A.B., 1915
 GEORGE MARSH HIGGINS, B.S. (*Knox College*) 1914

The Degree of Master of Science

In Agronomy

M REECE EDWARDS
 TRENNACE FLOWERREE, B.S., 1913
 WARREN RIPPEY SCHOONOVER, B.S. (*Occidental College*) 1913

In Animal Husbandry

WILBUR JEROME CARMICHAEL, B.S., 1913
 JAMES BRUCE HENDERSON, B.S., 1916
 WILLIAM ALGERNON KINGSMILL MORKEL, A.B., 1915
 JULIUS EDWARD NORDBY, B.S. (*University of Idaho*) 1915
 JAMES WILBUR WHISENAND, B.S. (*University of Nebraska*) 1914
 DAVID WILLARD WILLIAMS, B.S. (*Ohio State University*) 1915

In Architecture

LA FORCE BAILEY, B.S., 1915

In Ceramic Engineering

RALPH RAYMOND DANIELSON, B.S., 1914
 FRANK ALLEN KIRKPATRICK, B.S., 1914
 ARTHUR EDWARD WILLIAMS, B.S., 1910

In Chemistry

DON WARREN BISSELL, B.S. (*New Hampshire College*) 1914
 FREDERICK NORTH CRAWFORD, B.S. (*Wesleyan University*) 1908
 CARL NATHAN DAVIDSON, A.B. (*Lawrence College*) 1914
 EDWARD ADELBERT DOISY, A.B., 1915
 FRANK F FOOTITT, A.B. (*Albion College*) 1914
 JAY THOMAS FORD, A.B. (*DePauw University*) 1914
 WILLIAM DURRELL HATFIELD, B.S. (*Illinois College*) 1914
 JOHN FREDERICK GROSS HICKS, B.S. (*University of Pennsylvania*) 1906
 WALTER GERALD KARR, B.S. (*Alfred University*) 1913
 HENRY RHODES LEE, A.B. (*Carroll College*) 1914
 HAROLD ALVIN LEVEY, B.E. (*Tulane University*) 1911
 STEWART DENT MARQUIS, A.B. (*Lake Forest College*) 1911
 ROBBINS RUSSEL, B.S. (*Illinois College*) 1914
 ALBERT DURAND SHEPARD, B.S. (*South Dakota State College*) 1914
 NIM CHI SHUM, B.S., 1914
 TERENCE ONAS WESTHAFFER, A.B. (*University of Oklahoma*) 1914

In Civil Engineering

KAIMIN KAY FENG, B.S., 1915
 KOZABURO MISE, C.E. (*Tokyo Imperial University*) 1911
 JACKSON HEATH WILKINSON, B.S., 1915
 JAMES FOOK ONN YAPP, B.S., 1915

In Dairy Bacteriology

HARRISON AUGUST RUEHE, B.S., 1911

In Electrical Engineering

CARL SHIPMAN BREESE, B.S. (*Kansas State Agricultural College*) 1912
 WALTER ARTHUR GATWARD, B.S. (*Washington State College*) 1913
 TANE KAWAMOTO

In Entomology

CLYDE CARNEY HAMILTON, B.S. (*Kansas State Agricultural College*) 1913
 JOSEPH LYONEL KING, B.S. (*Ohio State University*) 1914
 LEWIS BRADFORD RIPLEY, B.S. (*Trinity College*) 1915

In Geology

MASON KENT READ, B.S. (*Denison University*) 1914

In Horticulture

JAMES ALFRED CRAWFORD, B.S. (*Cornell University*) 1915

*In Household Science*MARIE BREESE MILLER, B.S. (*Ohio State University*) 1911*In Mechanical Engineering*LESTER CLYDE LICHTY, B.S. (*University of Nebraska*) 1913WILLIAM PENN LUKENS, A.B. (*Swarthmore College*) 1913WALTER JACOB WOHLNBERG, B.S. (*University of Nebraska*) 1910*In Pathology and Bacteriology (Medicine)*FREDERICK HOWARD FALLS, B.S. (*University of Chicago*) 1908, M.D. (*Rush Medical College*) 1910*In Physics*HARRY TYLER BOOTH, B.S. (*Carleton College*) 1915*In Railway Mechanical Engineering*

EVERETT GILLHAM YOUNG, B.S., 1913

*In Theoretical and Applied Mechanics*ANDREW JOHN ALBERT ANDERSON, B.S. (*Lewis Institute*) 1913, B.S., M.S., 1915RAYMOND EARL DAVIS, B.S., C.E. (*University of Maine*) 1911, 1914JASPER OWEN DRAFFIN, B.S. (*University of Vermont*) 1913

Professional Degrees in Engineering

The Degree of Civil Engineer

LEVI PATTEN ATWOOD, B.S., 1894

EDWIN WALKER BUXTON, B.S., 1907

BYRON KEMP COCHLAN, B.S., 1908

CHARLES EDMUND DELBUW, B.S., 1912

ARTHUR LUDVIG ENGER, B.S., 1911

HOWARD CHARLES HAUNGS, B.S., 1907

GEORGE MARTIN ALOYSIUS ILG, B.S., 1909

HARRY ASHTON ROBERTS, B.S., 1902

BENJAMIN BRUCE SHAW, B.S., 1911

MILTON FREDERICK STEIN, B.S., 1909

The Degree of Electrical Engineer

EDGAR DWIGHT DOYLE, B.S., 1910

FREDERICK JOHN FOERSTERLING, B.S., 1911

RALPH MAYO GASTON, B.S., 1903

HARRY FOREST GEIST, B.S., 1912

RUDOLPH McDERMET, B.S., M.S., 1912, 1914

The Degree of Mechanical Engineer

CLARENCE BOYLE, Jr., B.S., 1910

PERRY JOHN FREEMAN, B.S., 1907

HARRY FREDERICK GODEKE, B.S., 1905

KENNETH GARDNER SMITH, A.B. (*University of Chicago*) 1896, B.S., 1905

ARTHUR OTTO SPIERLING, B.S., 1910

*The Degree of Engineer of Mines*ELMER ALLEN HOLBROOK, B.S. (*Massachusetts Institute of Technology*) 1904

The Degree of Doctor of Philosophy

*In Bacteriology*FRED WILBUR TANNER, B.S. (*Wesleyan University*) 1912, M.S., 1914*In Botany*JOHN ASBURY ELLIOTT, A.B. (*Fairmount College*) 1913, A.M. (*University of Kansas*) 1914

ERNEST MICHAEL RUDOLPH LAMKEY, A.B., A.M., 1913, 1914

ROSALIE MARY PARR, A.B., A.M., 1906, 1911

HARRY DWIGHT WAGGONER, A.B., A.M., 1909, 1914

*In Chemistry*THEODORE ROLLY BALL, B.S. (*Drake University*) 1908, M.S., 1914ST. ELMO BRADY, A.B. (*Fisk University*) 1908, A.M., 1914KARL ADOLF CLARK, A.B., A.M. (*McMaster University*) 1910, 1912PAUL MARSHALL DEAN, A.B., A.M. (*University of Colorado*) 1908, 1911EDGAR WALLACE ENGLE, B.S. (*Drury College*) 1912, M.S., 1914DUANE TAYLOR ENGLIS, A.B. (*Eureka College*) 1912, A.M., 1914RAY WASHINGTON HESS, A.B. (*Morningside College*) 1912, A.M., 1914THOMAS ERNEST LAYNG, A.B., A.M. (*McMaster University*) 1909, 1912HARRY FLETCHER LEWIS, B.S., M.S. (*Wesleyan University*) 1912, 1913

FLOYD WILLIAM MOHLMAN, B.S., M.S., 1912, 1914

JOHN CARL ROSS, A.B. (*University of the Cape of Good Hope*) 1911, M.S., 1915

CLARENCE SCHOLL, B.S., M.S., 1913, 1914

*In Economics*FRED EMERSON CLARK, A.B. (*Albion College*) 1912, A.M., 1913FREDERIC ARTHUR RUSSELL, A.B., A.M. (*Albion College*) 1908, 1909

In Education

JOSEPH HENRY JOHNSTON, A.B., A.M. (*University of North Carolina*) 1910, 1914

In Entomology

PHILIP GARMAN, B.S. (*Kentucky State University*) 1913, M.S., 1914

ANNA GRACE NEWELL, A.B., A.M. (*Smith College*) 1900, 1908

ALVAH PETERSON, B.S. (*Knox College*) 1911, A.M., 1913

In Engineering

HAROLD MALCOLM WESTERGAARD, B.S. (*Royal Engineering College, Copenhagen*) 1911

In History

WAYNE EDSON STEVENS, A.B. (*Knox College*) 1913, A.M., 1914

In Modern Languages (In German)

GEORGE WASHINGTON SPINDLER, A.B., A.M. (*Indiana University*) 1900, 1908

In Philosophy

ETHEL ERNESTINE SABIN, A.B., A.M. (*University of Wisconsin*) 1908, 1914

In Physics

JONAS BERNARD NATHANSON, A.B. (*Ohio State University*) 1912, A.M., 1913

OSCAR ALAN RANDOLPH, B.S. (*Missouri School of Mines*) 1911, M.S., 1913

In Political Science

NIELS HENRIKSEN DEBEL, A.B., A.M. (*University of Nebraska*) 1913, 1914

In Psychology

HELEN CLARK, A.B., (*Vassar College*) 1913

In Zoology

JESSE LEROY CONEL, A.B. (*James Millikin University*) 1912, A.M., 1913

HORACE WESLEY STUNKARD, B.S. (*Coe College*) 1912, A.M., 1914

FELLOWS AND SCHOLARS IN THE GRADUATE SCHOOL

1916-17

MIRIAM CYNTHIA AKERS, Scholar in Classics
 WORTH ARTHUR ALLISON, Scholar in Animal Husbandry
 ETHEL LOUISE BEDIENT, Scholar in Economics
 ELIZABETH BODFISH, Scholar in Zoology
 SILAS ALONZO BRALEY, Fellow in Chemistry
 EDWARD MARION AUGUSTUS CHANDLER, Fellow in Organic Chemistry
 ERNEST EDWARD CHARLTON, Research Fellow in Industrial Chemistry
 HAROLD DUDLEY CLAYBERG, Fellow in Botany
 FRANK WARREN CLIPPINGER, Scholar in English
 GILBERT HOOPER COLLINGS, Fellow in Agronomy
 DELMAR GROSS COOKE, Fellow in English
 ARTHUR REUBEN COOPER, Fellow in Zoology (*Honorary*)
 EDWARD HILL COX, Fellow in Chemistry
 HENRY GORDON MACGREGOR CRAWFORD, Scholar in Entomology
 HILDA MARION CROLL, Scholar in Household Science
 SYLVAN JAY CROOKER, Fellow in Physics
 DOROTHY LUCILE CUTHBERT, Scholar in Classics
 RALPH HIPPLE DEAN, Scholar in Chemistry (*Nominee of Lake Forest College*)
 ALICE MARY DOANE, Scholar in English
 JOHN EZRA DOTTERER, Scholar in Mathematics
 GEORGE LEWIS DOTY, Scholar in Romance Languages
 LOUISE BURNHAM DUNBAR, Scholar in History
 RHODA FAHNESTOCK, Scholar in Household Science
 ERNEST CARROLL FAUST, Fellow in Zoology
 CONSTANCE WILBERTA FERGUSON,¹ Scholar in French (*Nominee of Illinois Wesleyan University*)
 ALVIN TEXAS FISHMAN, Scholar in Animal Husbandry (*Nominee College of Agriculture*)
 HOBART DICKINSON FRARY, Fellow in Mathematics
 HARRY RHEINHARDT FRITZ, Research Fellow in Electrical Engineering
 ELIZABETH LEAH FULLENWIDER, Scholar in English
 MARGUERITE ELSTON GAUGER, Scholar in Household Science
 MARCUS SELDEN GOLDMAN, Scholar in English
 MARGARET LOLA GOLDSMITH, Scholar in German (*Nominee of Illinois Wesleyan University*)
 CLARA LUISE HAESSLER, Fellow in German
 DWIGHT FREDERICK HEATH, Scholar in Mathematics
 RUTH HIGLEY, Fellow in Zoology
 ROBERT McCLAUGHEY HILL, Scholar in Chemistry (*Nominee of Curthage College*)
 JACOB ARNOLD HORTO, Fellow in History
 ELMO PAUL HOHMAN, Scholar in History (*Nominee of College of Liberal Arts and Sciences*)
 CHARLES MORSE HUFFER, Scholar in Mathematics
 HELEN DORCAS JAMES, Scholar in English
 WALTER WILSON JENNINGS, Fellow in History
 SEBASTIAN KARRER, Fellow in Physics
 ALBERT KEISER, Fellow in English
 PAUL KENNETH KNIGHT, Scholar in Economics
 LOUIS J LARSON, Research Fellow in Theoretical and Applied Mechanics
 CHARLTON PAGE LATHROP, Scholar in Pomology
 MAC E LEACH, Scholar in English
 ALVA ELISHA MCCOY, Scholar in Agronomy
 THOMAS BYRA MAGATH, Fellow in Zoology
 A ERNEST MAHANNAH, Fellow in Political Science
 LESLIE RAY MARSTON, Scholar in Education (*Nominee of Greenville College*)
 ETHEL RUTH MURRAY, Scholar in Classics
 MERLE LOUIS NEBEL, Fellow in Economic Geology
 WILLIS JAMES NOLAN, Scholar in Entomology
 BENITO RENE ORODNEZ, Research Fellow in Railway Electrical Engineering (*Nominee of the College of Engineering*)
 WILLIAM LOVE PARISH, Scholar in Architectural Engineering
 NEWTON LYMAN PARTRIDGE, Fellow in Horticulture
 ADOLPH FREDERICK PAULI, Scholar in Latin
 BERNARD PEPINSKY, Research Scholar in Engineering Mechanics
 RAY STUART QUICK, Research Fellow in Engineering
 LEWIS BRADFORD RIPLEY, Fellow in Entomology
 EDWARD ALEXANDER ROBERTS, Research Fellow in Railway Engineering
 GWLADYS ELLEN ROBERTS, Scholar in Latin
 CHARLES MARION ROSS, Scholar in Physiology (*Nominee of Eureka College*)
 KENNETH DWIGHT ROSS, Scholar in Economics
 ROBERT ROYAL RUSSEL, Fellow in History
 RACHEL LOUISA SARGENT, Scholar in Latin
 HELEN KATHERINE SCHOEPPERLE, Fellow in History

¹ Resigned January 31, 1917

ERNEST RUDOLPH SCHULZ, Scholar in Agronomy
 HERBERT FRANK SEIFERT, Scholar in Entomology
 FRANKLIN FRED SHERWOOD, Fellow in Chemistry
 HORACE ABBOTT SHONLE, Scholar in Animal Husbandry
 LINTON MILLARD SMITH, Scholar in Chemistry (*Nominee of Shurtleff College*)
 MERLIN GRANT SMITH, Fellow in Mathematics
 ALLEN EDWIN STEARN, Fellow in Chemistry
 BIRD RICHARD STEPHENSON, Scholar in Physics
 CHARLES JACOB STOWELL, Fellow in Economics
 FREDERICK PAUL STRAUCH, Research Fellow in Gas Engineering
 STETFAN FUGIA TANABE, Research Fellow in Physics
 JOHN LAWRENCE TEARE, Scholar in Political Science
 GERALD STAMPER TEBBE, Scholar in Educational Psychology
 RICHARD LAURENCE TEMPLIN, Research Fellow in Theoretical and Applied Mechanics
 RALPH EARLE TIEJE, Fellow in English
 HELENA MARIE ULRICI, Scholar in German (*Nominee of Rockford College*)
 HAROLD PARSONS VAIL, Research Scholar in Mechanical Engineering
 CAMILLO WEISS, Research Fellow in Civil Engineering
 EDWARD WICHERS, Fellow in Inorganic Chemistry
 WILLIAM HAROLD WILSON, Fellow in Mathematics
 GEORGE NORTON WOLCOTT, Fellow in Entomology
 DALE S YOUNG, Scholar in Mathematics (*Nominee of Hedding College*)
 HACHIRO YUASA, Scholar in Entomology

The Francis John Plym Fellowship in Architecture

ROGER CHARLES KIRCHHOFF, 1913

UNIVERSITY HONORS

Awarded by the Faculty of the University
1915-16

HONORS AT COMMENCEMENT

(June, 1916)

College of Liberal Arts and Sciences

THE DEGREE OF A.B. WITH HONORS

EDWARD CORBYN ORBERT BEATTY, in History
BEN CONRAD BERG, in History
MIRIAM REBECCA FASOLD, in Economics
DWIGHT FREDERICK HEATH, in Mathematics
ELMO PAUL HOHMAN, in History
OLIVE DEAN HORMEL, in English
RUTH ELLEN LANCASTER, in History
MAC E LEACH, in English
ADOLPH FREDERICK PAULI, in Classics
AGNES WRIGHT, in History

SPECIAL HONORS

SIDNEY DALE KIRKPATRICK, in Chemical Engineering
CHESTER WILLIAM LENZING, in Chemistry
HORACE ABBOTT SHONLE, in Chemistry
WALTER JOSEPH TILTON, in Chemistry

College of Commerce and Business Administration

THE DEGREE OF A.B. WITH HONORS

KENNETH DWIGHT ROSS

FINAL HONORS

WALTER EARL BAKER
PAUL KENNETH KNIGHT
JOHN LESTER LUDWIG

LEO GAY McAFEE
ELLIOTT STRONG MILLER
KENNETH DWIGHT ROSS

College of Engineering

FINAL HONORS

CLARENCE LOUIS BENTZ
THOMAS HENRY BURRELL
CLARENCE TODD GRANT
EUGENE CARL HAMILL
ARNOLD CARL HOLINGER
WILLIS WILKINSON HUBBARD
FRANK SUMNER HUNT
CHARLES HAROLD JACKMAN
CORNELIUS WALTER KOEBELE
LEROY WILLIAM LEDGERWOOD
EARL EMANUEL LIBMAN

LEO JOSEPH MATTINGLY
LESLIE SHERMAN MORRILL
ADOLPH LINCOLN NELSON
WILLIAM LOVE PARISH
ERIC FREDERICK PIHLGARD
GEORGE W RENWICK
FRANK ROSENBERG
DON BUEL SCHULER
JAMES CREAK STIRTON
ALBERT GETTEN STONE
ARTHUR CHARLES ZIMMERMANN

SPECIAL HONORS

EUGENE CARL HAMILL
ADOLPH LINCOLN NELSON

FRANK ROSENBERG

College of Agriculture

FINAL HONORS

EDWIN ADAMS BEBB
FORREST BEBB
EARL VIVIAN BRUINGTON
ALVIN TEXAS FISHMAN
JOHN RAY GILKEY
LOUIS JACOB GREENGARD
LEONARD B HIEBEL
SHERMAN INGELS
LEO CHARLES JEZ
WILLIAM STANTON LADD

CHARLTON PAGE LATHROP
ELLENA LEE
ALEXANDER PAUL MACDONALD, Jr.
BENJAMIN HARRISON QUESTEL
ERNEST RUDOLF SCHULZ
ARTHUR TRUMAN SEMPLE
WILBUR MILLS SUTHERLAND
CLAIR JOEL THOMAS
OLIVER JOHN TROSTER

SPECIAL HONORS

LOUIS JACOB GREENGARD, in Botany

College of Law

FINAL HONORS

NUEL DINSMORE BELNAP

FRED HANFORD KELLY

Library School

FINAL HONORS

JESSIE ELIZABETH BISHOP

School of Music

MABEL LOUISE RUEHE

PRELIMINARY HONORS

October, 1916

College of Liberal Arts and Sciences

RUTH AMELIA ALVERSON
 FRED PHELPS BAKER
 LOUIS ROLLAND BERNER
 JAMES BENNETT CHILDS
 GRACE JEAN CHRISTY
 DOROTHY LANNING DOTY
 HELENE ELEANORE DOTY
 CHARLES FAIRMAN
 MCKINLEY GARDNER
 ESTHER CRANSTON GREEN

JOSEPH LOWE HALL
 FLORA EMILY HOTTES
 ANNA LIBMAN
 ALIDA HELEN MOSS
 CATHERINE NEEDHAM
 MARION GORRZ SWANBERG
 VIVIAN EARLE TILLSON
 JOHN MILTON WILLIAMS
 WINIFRED WILSON

College of Commerce and Business Administration

MILDRED DUMKE
 ELMORE ALBERT GRIPP
 WILLIAM LEE KLINK
 RALPH MORLAN NETZ
 FRANCELIA PLUMLY SARGENT

FRANK SPAIN SHY
 CARLETON MYRON TOWER
 WARD MAURICE WILLITS
 LAURENCE MORSE WINTERS

College of Engineering

HARRY GEORGE ANTENEN
 CURTIS LOVE BOARDMAN
 WILLARD EDWIN BULL
 CHARLIE JAMES CALKIN
 EARLE WESLEY CARRIER
 CASIMIR STANLEY CIERPIK
 CHARLES HENRY CLARAHAN
 PAUL V. COTTINGHAM
 HELGE CHRISTOPHER DIESERUD
 JOSEPH DVORAK
 JACOB HOWARD EUSTON
 RONALD EDWARD FOULKE
 JESSE LEHMAN GARY

PENCO GHERGANOFF
 JOHN REED HODGE
 DAVID HORWICH
 OSCAR IVAN LYONS
 ROBERT EMMETT MCKEEVER
 HAROLD LOEFFEL OLESEN
 FREDERICK ALBERT PECK
 EDWIN RUDOLPH PETZING
 HARRY RICHMOND SEAVEY
 ERNEST LAWRENCE STOUFFER
 CLARK HENRY STURM
 LYLE AVERY WILSON
 LELAND EDWARD YEAGER

College of Agriculture

RUSSELL EVANS APPLE
 BESSIE MAY ATKINS
 HENRY SCOVILLE BEARDSLEY
 IRVING ALSON DENISON
 GEORGE EDWARD KIRCHER FAGER
 WALTER ADOLPH GOELITZ
 JOEL WARING GREENE
 DONALD RICHARD MITCHELL

HARRIET MURIEL PHILLIPS
 BEN JAMES PRINCE
 FRANK SAILER
 GERTRUDE SAWYER
 RALPH LINDON SMITH
 EN-LIN SUN
 HAROLD BRADFORD TUKEY

College of Law

LOYD DANIEL BUNTING
 CLARENCE EUGENE KIMMEL

THOMAS SHERMAN MORGAN

School of Music

CLARA GRACE ARMINGTON

MILITARY HONORS

COMMISSIONED AS BREVET CAPTAINS, ILLINOIS NATIONAL GUARD, ISSUED BY THE GOVERNOR IN 1916

EDWIN SHELBY, JR.
FRANCIS M VAN NATTER
LLOYD E LAMKINS
RALPH R THOMAS
OLIVER J TROSTER
ROSS S MASON
GEORGE CURTISS
REINHARD A J STEINMAYER
DANIEL E MILLER
CHARLES W MCCUMBER
CHARLES N OWEN
WILLIAM H KASTEN
OLIVER C K HUTCHINSON
EDGAR C SWARTWOUT
EDWARD C O BEATTY
KENNETH C BELL
ALWIN G STEINMAYER
LESLIE S MORRILL
DUDLEY W CRANE
CLYDE J NORTH

JOHN H GAGE
ERIC F PHILGARD
HANS P GREISON
MAURICE C JOHNSON
DWIGHT F HEATH
WALTER W SHELLEN
LESLIE R LUMLEY
WALDERN H HOUGH
RUSSELL W MILLAR
CHESTER G HADDEN
WARREN P BEAUBIEN
RUSSELL D BARNES
LEAL W REESE
HARRY W MACKECHNIE
ALBERT G STONE
JOHN G EPPINGER
CARSON G JENNINGS
SIEGFRIED N VIBELIUS
GEORGE A GIEB
KENNETH B BUSH
CHARLES L RITTS

REPORTED TO THE ADJUTANT GENERAL, UNITED STATES ARMY, AS DISTINGUISHED CADETS

GEORGE CURTISS
GEORGE ALBERT GEIB
WALDERN HENRY HOUGH
CARSON GARY JENNINGS
LLOYD E LAMKINS
ROSS S MASON
CHARLES W MCCUMBER

DANIEL E MILLER
LESLIE S MORRILL
ERIC H PHILGARD
EDWIN SHELBY, JR.
REINHARD A J STEINMAYER
OLIVER J TROSTER
RALPH R THOMAS

ROSTER OF OFFICERS OF THE UNIVERSITY BRIGADE, 1916-17

Colonel

W O NELSON

Lieutenant-Colonels

J H POWERS
W F CAMPBELL

Majors

J T LEWIS
R H ENGLE
L H GIFT
J R LINDSEY

H L HUSSON
M B WARE
A R KEAGY

Captains

T T McEvoy
C GROSS
H P THURLOW
R L McKOWN
J E OTT
L F SIMPSON
A C AMES
R H LAWRENCE
C W BORTON
V H GROSSBERG
H C GESSELBRACHT
G C DARRELL
E S AXLINE
J L CRAWFORD
J H NEEDLER
H O SIEGMUND
L W CHALCRAFT

C A BRITT
M D ROBERTS
L L DAVIS
D T SWAIM
J N JOHNSON
H G OVEREND
P W OTT
J W SMITH
L WARMOLTS
M CUSKADEN
G C SMITH
C W SMITH
G L SMITH
T S HAMILTON
C R GIDEON
D D SHARER

First Lieutenants

C FAIRMAN
L S FOOTE
E R BRIGHAM
W M WILLETTTS
L E YEAGER
F C KALTHOFF
H R IDE
F D BALL
D R E BROWN
O G BRAIN
J M GRAY
R HUMMELAND
C M ROBERTS
V A PECCHIA
E R PETZING
W H BON DURANT
J N COST
F N VAUGHN
G E DICKSON
J H HACKLEY

H S OLESEN
C C BROOKS
W E CLEVELAND
I HULTMAN
A LEE
I W TURNQUIST
W VAN CLEVE
F H MILLER
C ANDERSON
H O SWINDLER
C C LARSON
D R GOOCH
C E SNELL
S B TRELEASE
J A PETERSON
R C GORE
I B OLIN
R H ANTOSZEWSKI
G A SOWERS

Second Lieutenants

E W BAILEY
E S MOBERLY
D M CHALCRAFT
H A WELLS
D W HICKEY
M B HARLAND
W F COOLIDGE
H A HUISKEN
E I KOBER
H T MEEK
N O TAYLOR
R H MALLORY
E M PICKETT
A K WUERKER
C A WAGNER

A L KLINE
J M GREGORY
A E PARR
W J ALCOCK
W B HOSTETLER
A H FRICK
H REICHELDERFER
A J EICHBERG
H B TUKEY
F E LUNDGREN
J S MCCARROLL
A K SCHIFFLIN
H S DIESERUD
M A YOCKEY
A C WILSON

ANNUAL COMPETITIVE DRILLS—1916

University Gold Medal.....Sergeant Major Charles Fairman, First Infantry
Hazelton Gold Medal.....Private W. J. Risley, Company "L" First Infantry

Infantry

University Bronze Medals

(Sophomore Competitive Drill)

Company "E" First Regiment

Captain, L. S. Morrill
1st Lieutenant, H. O. Siegmund
2nd Lieutenant, J. H. Needler
1st Sergeant, W. E. Cleveland
O. M. Sergeant, H. T. Clapp
Sergeants, D. A. Armstrong
C. Lively
D. Horwich
A. R. Moore
R. Stevens
F. H. Pearson
L. Williams
Corporals, H. P. Buck
W. H. Doescher
F. Sailor
P. T. Sawyer
Privates, F. B. Barber
M. M. Benson
H. E. Bruns
C. E. Born
J. M. Birks
H. H. Carrithers
Q. K. Chen
A. M. Conger
K. G. Cooling
H. R. Criley
M. Fogler
L. E. Gildner
A. V. Hardesty

Privates, W. Hawthorne
T. H. Jackson
C. S. Kayser
J. T. Kelly
C. Kreidler
W. McCartney
R. J. Maxwell
G. Murphy
G. W. Nachtrieb
J. M. Nafziger
F. B. Parden
B. J. Prince
J. K. Purcell
L. C. Raines
E. T. Rundquist
A. N. Reece
E. Sisson
R. C. Smith
L. L. Smith
J. F. Staples
W. Stephens
A. Thor
I. W. Traxler
S. N. Van Winkle
L. Westenhaver
R. S. White
A. O. Wiese
J. M. Williams
O. H. Williams

University Bronze Medals¹

(Freshman Competitive Drills)

Company "I" First Regiment

Captain,	E. F. Pihlgard	Privates,	A. G. Groche
1st Lieutenant,	J. H. Powers		T. E. Henley
2nd Lieutenant,	C. W. Borton		C. Howe
1st Sergeant,	A. Lee		H. N. Ingwersen
Q. M. Sergeant,	W. F. Coolidge		P. Koepke
Sergeants,	O. C. Beatty		E. C. Kuechler
	I. A. Denison		R. L. Leach
	R. N. Foster		T. E. Lowrey
	A. E. Ingwers		H. W. McDaniel
	E. Morsch		G. S. McLaughlin
	A. W. Pickett		J. C. Manley
Lance Corporals,	W. Brown		W. K. Maynard
	H. Boyle		C. Miller
	M. D. Downs		L. Murray
	W. P. Jones		C. A. Nagel
	G. C. Ousley		H. A. Neff
	W. W. Thorp		A. E. Norton
Privates,	W. T. Woleben		G. R. Postle
	H. L. Ackert		O. Randall
	P. Arndt		J. Richards
	C. Bardwell		A. K. Sanderson
	E. E. Bauer		C. J. Scanlan
	J. J. Bickel		A. H. Schroeder
	P. J. Bronson		W. Shaw
	J. G. Clark		D. M. Smith
	K. P. Comstock		J. R. Spencer
	D. E. Coulter		G. W. Stone
	C. S. Dustin		R. J. Tarbox
	L. Ernst		F. W. Valentine
	J. S. Foley		L. E. Wagner
	D. Forty		J. J. Yount
	J. Goldberg		

Signal Company

University Bronze Medals

<i>Flag Section</i>		<i>Key Section</i>	
Privates,	W. W. Schreiner	Privates,	E. L. Davis
	R. D. Norris		W. L. Shellabarger
<i>Semaphore</i>		<i>Heliograph Section</i>	
Corporal,	R. Brooks	Privates,	F. L. Goldman
Private,	F. J. Hartigan		T. R. Gibson
<i>Wireless Section</i>			
Privates,		Caldwell, K. R.	
		Allman, J. C.	

Engineer Company Competitive

<i>Knot Tying and Lashing</i>		<i>Map Sketching</i>	
1st Sergeant,	V. A. Pecchia	Corporals,	B. A. Wrede
Sergeant,	C. F. Mercer		K. W. Carr
Private,	J. M. Aubuchon	Private,	A. Hoehnke

Hospital Company Competitive

Best Drilled Cadet
Private, N. Feldman

Litter Section

Sergeant,	P. G. Kreider, In Charge	Privates,	W. Curtis
Privates,	R. H. Antoszewski		R. H. Girhard
	J. A. Peterson		

¹Sophomores, bronze medals. Freshmen, bronze pins.

Rifle Teams**FIRST TEAM**

Silver Medals

Company L, 2nd Infantry—
 1st Sergeant, E. R. Brigham
 Sergeants, W. W. Hancock
 C. A. Wagner
 Privates, P. S. Nelson
 J. E. Halligan
 R. L. Morse
 R. Stockenberg
 P. M. Young
 C. M. Hayes
 R. T. Twells

SECOND TEAM

Bronze Medals

Company I, 1st Infantry—
 1st Sergeant, A. Lee,
 Sergeant, M. C. Troster
 Privates, H. W. McDaniel
 G. R. Postel
 G. S. McLaughlin
 M. D. Downs
 A. Shroeder
 G. W. Stone
 T. E. Henley
 W. P. Jones

PRIZES**American Institute of Architects Medal**

CAROL AARON KLEIN

The B'nai B'rith Prize

CHARLOTTE B GOLDBERG

The Phi Beta Kappa Prize

EDWARD CORBYN OBERT BEATTY

Honorable Mention

ELMO PAUL HOLMAN

KENNETH DWIGHT ROSS

The St. Patrick's Day Prize

MINNIE LUCILE NEEDHAM

Conference Medal for Excellence in Scholarship and Athletics for the Year 1916

ELMO PAUL HOHMAN

SUMMARY OF DEGREES CONFERRED

1916

Degrees in the Graduate School

A.M.....	52
M.S.....	53
C.E.....	10
E.E.....	5
M.E.....	5
E.M.....	1
Ph.D.....	33
<i>Total</i>	159

Baccalaureate Degrees

A.B., College of Liberal Arts and Sciences.....	228
B.S., College of Liberal Arts and Sciences.....	21
A.B., College of Commerce and Business Administration.....	69
B.S., College of Engineering.....	223
B.S., College of Agriculture.....	189
B.Mus., School of Music.....	7
<i>Total</i>	737

Degrees in Law

LL.B.....	21
J.D.....	4
<i>Total</i>	25

Degrees in Library Science

B.L.S.....	11
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TOTAL, COLLEGES AND SCHOOLS AT URBANA..... 932

Degrees in Medicine

B.S.....	12
M.D.....	109
<i>Total</i>	121

Degrees in Dentistry

D.D.S.....	32
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Degrees in Pharmacy

Ph.G.....	39
Ph.C.....	2
<i>Total</i>	41

TOTAL, DEPARTMENTS IN CHICAGO..... 194

TOTAL, ALL DEPARTMENTS..... 1126

SUMMARY OF OFFICERS

BY COLLEGES AND SCHOOLS

1916-1917

OFFICERS OF INSTRUCTION

COLLEGES, SCHOOLS, AND DEPARTMENTS	PROFESSORS		ASSOCIATE PROFESSORS		ASSISTANT PROFESSORS		ASSOCIATES	
	Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.
Liberal Arts and Sciences..	46	..	9	..	20	..	24	1
One-Year Medical.....	3	..	..	..	3	..	3	..
Commerce and Business								
Administration.....	4	..	..	..	3	..	..	..
Engineering.....	21	..	3	..	19	..	20	..
Agriculture.....	13	1	2	..	18	1	17	6
Music.....	1	..	..	..	1	..	..	..
Law.....	7	..	..	..	1	..	..	..
Library.....	1	..	..	..	..	1	1	..
Military Science.....	1	..	..	..	4	..	..	..
Physical Training.....	1	1	..	..	..	..	3	..
Photography.....	..	..	..	..	..	..	..	..
<i>Totals at Urbana.....</i>	98	2	14	..	69	2	68	7
Medicine.....	29	..	6	1	23	1	8	..
Dentistry.....	8	..	..	..	6	..	2	..
Pharmacy.....	1	..	..	..	2	..	..	..
<i>Totals in Chicago.....</i>	38	..	6	1	31	1	10	..
<i>TOTALS IN UNIVERSITY.</i>	136	2	20	1	100	3	78	7

OFFICERS OF ADMINISTRATION

General.....	..
Library Staff.....	..
<i>TOTAL, INSTRUCTIONAL AND ADMINISTRATIVE.....</i>	..
<i>Deduct duplicates.....</i>	..
<i>NET TOTAL IN UNIVERSITY.....</i>	..

SUMMARY OF OFFICERS

BY COLLEGES AND SCHOOLS

1916-1917

SPECIAL LECTURERS		INSTRUCTORS		ASSISTANTS		GRADUATE ASSISTANTS		STUDENT ASSISTANTS		TOTALS		
Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.	Total
3	..	44	8	87	15	22	8	6	..	261	32	293
..	..	3	..	6	2	1	..	..	..	19	2	21
1	..	12	..	7	..	..	..	..	..	27	..	27
..	..	35	..	19	..	..	..	..	..	117	..	117
..	..	24	7	30	7	..	..	..	..	104	22	126
..	..	6	3	..	..	..	..	..	..	8	3	11
..	8	..	8
..	1	..	2	..	..	..	..	..	..	2	4	6
..	10	..	15	..	15
..	..	3	3	2	2	..	..	..	1	9	7	16
..	..	1	..	..	..	..	..	..	..	1	..	1
4	1	128	23	151	26	23	8	16	1	571	70	641
3	..	59	2	15	3	..	..	5	..	148	7	155
2	..	9	..	4	1	..	..	5	..	36	1	37
1	..	3	..	..	..	..	..	..	..	7	..	7
6	..	71	2	19	4	..	..	10	..	191	8	199
10	1	199	25	170	30	23	8	26	1	762	78	840
.....	52	3	55
.....	7	43	50
.....	821	124	945
.....	71	6	77
.....	750	118	868

SUMMARY OF STUDENTS 1916-1917

College and Course	Seniors			Juniors			Sophomores		
	Men	Wom.	Total	Men	Wom.	Total	Men	Wom.	Total
LIBERAL ARTS AND SCIENCES									
General.....	62	102	164	91	113	204	122	120	242
Medical Preparatory...	2	...	2	6	2	8	26	1	27
Household Science.....	...	46	46	...	57	57	...	63	63
Chemistry.....	14	...	14	21	...	21	12	...	12
Chemical Engineering...	19	...	19	29	...	29	30	...	30
Totals.....	97	148	245	147	172	319	190	184	374
ONE-YEAR MEDICAL.....									
COMMERCE AND BUSINESS									
ADMINISTRATION..	74	2	76	121	5	126	138	3	141
ENGINEERING									
Architecture.....	26	3	29	30	...	30	36	1	37
Architectural Eng.....	28	...	28	44	...	44	35	...	35
Ceramic Engineering...	7	...	7	18	...	18	8	...	8
Civil Engineering.....	40	...	40	32	...	32	45	...	45
Electrical Engineering..	38	...	38	68	...	68	52	...	52
Mechanical Engineering	40	...	40	56	...	56	67	...	67
Mining Engineering....	8	...	8	7	...	7	2	...	2
Mun. and San. Eng....	6	...	6	9	...	9	6	...	6
Railway Civil Eng....	1	...	1	6	...	6	4	...	4
Railway Electr. Eng....	3	...	3	6	...	6	3	...	3
Railway Mech. Eng....	2	...	2	2	...	2	2	...	2
Totals.....	199	3	202	278	...	278	260	1	261
AGRICULTURE									
General.....	207	4	211	205	3	208	197	5	202
Household Science.....	...	36	36	...	28	28	...	16	16
Totals.....	207	40	247	205	31	236	197	21	218
MUSIC.....	...	11	11	...	13	13	...	11	11
TOTALS UNDERGRADUATES AT URBANA.....									
				Third Year			Second Year		
LAW.....				17	...	17	19	...	19
LIBRARY SCHOOL.....							...	14	14
TOTALS, UNDERGRADUATES AND PROFESSIONAL SCHOOLS AT URBANA.....									
GRADUATE SCHOOL.....									
TOTALS AT URBANA, WINTER SESSION.....									
SUMMER SESSION, 1916									
Undergraduates.....									
Graduate Students.....									
Total, Summer Session.....									
TOTALS AT URBANA, TO FEBRUARY 21, 1917.....									
				Fourth Year			Third Year		
MEDICINE (Chicago)....	47	2	49	28	2	30	43	3	46
							Second Year		
DENTISTRY (Chicago).....				40	...	40	48	3	51
PHARMACY (Chicago)									
Ph.G. Curriculum.....							59	8	67
Ph.C. Curriculum.....							6	2	8
Specials.....							7	...	7
Total, Pharmacy.....							72	10	82
TOTAL IN CHICAGO.....									
TOTAL IN UNIVERSITY, TO FEBRUARY 21, 1917.....									
DUPLICATES TO BE DEDUCTED									
Summer Session Undergraduates returned for Winter Session.....									
Summer Session Graduate Students returned for Winter Session.....									
Other duplicate registrations.....									
Total duplicates.....									
NET TOTAL, TO FEBRUARY 21, 1917.....									

SUMMARY OF STUDENTS

1916-1917

Freshmen			Specials			Totals		
Men	Wom.	Total	Men	Wom.	Total	Men	Wom.	Total
237	286	523	12	14	26	524	635	1159
62	5	67	3	...	3	99	8	107
...	96	96	...	...	...	...	262	262
46	1	47	...	...	...	93	1	94
76	...	76	...	...	...	154	...	154
421	388	809	15	14	29	870	906	1776
8	...	8	...	...	...	8	...	8
360	15	375	21	...	21	714	25	739
50	1	51	2	...	2	144	5	149
55	...	55	...	...	...	162	...	162
10	...	10	...	...	...	43	...	43
86	...	86	1	...	1	204	...	204
114	...	114	1	...	1	273	...	273
119	...	119	4	...	4	286	...	286
12	...	12	1	...	1	30	...	30
7	...	7	...	...	...	28	...	28
3	...	3	...	...	...	14	...	14
4	...	4	...	...	...	16	...	16
2	...	2	...	...	...	8	...	8
462	1	463	9	...	9	1208	5	1213
324	10	334	72	13	85	1005	35	1040
...	46	46	...	7	7	...	133	133
324	56	380	72	20	92	1005	168	1173
1	43	44	6	23	29	7	101	108
.....						3812	1205	5017
29	First Year	31	6	Specials	6	71	2	73
5	2	...	...	...	...	5	40	45
.....						3888	1247	5135
.....						391	86	477
.....						4279	1333	5612
.....						579	410	989
.....						131	27	158
.....						710	437	1147
.....						4989	1770	6759
85	First Year	89	1	Specials	1	204	11	215
85	4	...	...	...	...	176	6	182
47	3	50	...	...	...	106	11	117
...	...	...	...	...	...	6	2	8
29	...	29	...	...	...	36	...	36
76	3	79	148	13	161
.....						528	30	558
.....						5517	1800	7317
.....						253	148	401
.....						71	9	80
.....						6	2	8
.....						330	159	489
.....						5187	1641	6828

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INDEX OF NAMES

(BOARDS, FACULTIES, LECTURERS, AND STAFFS)

(For General Index, see page 553.)

- Abbott, A. M., 14
 Abbott, W. L., 11, 12
 Ackerman, A. G. C., 13
 Adams, R., 23, 33, 78, 83, 84, 275
 Adler, Leon, 32
 Aishton, R. H., 13
 Aldrich, H. A., 14
 Alexander, D., 9, 38, 228, 229.
 Alvord, C. W., 20, 31, 184, 329, 331, 332, 333
 Allen, Louis, 28, 385, 386, 388
 Allen, P. W., 28, 294, 295, 410
 Allen, Ralph, 14
 Allyn, O. M., 26, 409
 d'Amato, O., 31, 385, 388
 Ammann, J. F., 14
 Amsterdam, Harry, 35
 Anderegg, F. O., 28, 275, 277
 Anders, P., 29, 276, 282
 Anderson, F. M., 198, 330, 334, 377, 380
 Anderson, H. W., 30, 266
 Anderson, M. R., 39, 40, 239
 Anderson, Viola J., 28, 339, 340
 Andrews, J. B., 26, 253, 258, 410
 Armstrong, E. K., 38, 213
 Arnold, H. C., 27, 274, 275
 Ash, P., 23, 258, 259, 261, 340
 Atkinson, Evelyn, 16
 Atwell, C. A., 26, 296
 Augustus, E. K., 29, 253, 255, 276, 410
 Aumer, J. P., 409
 Austin, F. G., 13
 Austin, M., 32
- Babbitt, H. E., 26, 362
 Babcock, K. C., 15, 17, 18, 20, 33
 Bach, I. W., 40
 Bachelie, C. V., 37, 220
 Bach y Rita, P., 31, 385, 388
 Bacon, C. S., 36, 213, 220, 221
 Badger, Eunice, 32, 370
 Baechtold, Elsie L., 35
 Bagley, W. C., 17, 20, 42, 172, 302, 304, 305, 306
 Bailey, E. W., 23, 334, 335, 336, 337, 411
 Bake, L. E., 40, 235, 236
 Baker, H. L., 38
 Baker, H. N., 227, 228
 Baker, H. T., 27, 309, 310, 313
 Baker, I. O., 19, 286, 287, 288
 Baldwin, E. C., 22, 309, 310, 311, 312
 Baldwin, F. D., 402
 Baldwin, F. M., 32, 394, 397
 Baldwin, L. S., 28, 296
 Ball, T. R., 27, 275, 278
 Ballantine, H. W., 15, 17, 21, 343
 Bamberger, Arrie, 38, 227
 Banks, M. F., 30, 296
 Barnard, J. W., 16, 23, 358
 Barnes, Clara M., 35
 Barnes, O. A., 32
 Barrett, C. W., 36, 213, 221, 222
 Barto, D. O., 23, 253, 255, 402
 Barton, H. J., 19, 42, 289, 291, 292
 Bartow, Edward, 20, 275, 279, 284, 416, 417
 Bauer, F. C., 24, 249, 251, 409
 Bayley, P. L., 29, 198, 371, 375
 Bayley, W. S., 20, 24, 42, 320, 321, 322, 323
 Beach, W. S., 29, 198, 266, 270
 Beal, G. D., 24, 198, 275, 279, 280, 283, 284, 285
 Beard, J. H., 16
 Beattie, H. J., 30, 276
 Beck, C. B., 29, 309, 313
 Beck, J. C., 37, 229, 230
- Beekley, J. S., 30, 348
 Benedict, B. W., 20, 42, 352, 354
 Bennett, A. N., 416
 Benson, E. O., 37, 219
 Benson, Susan T., 34
 Bentley, Madison, 20, 381, 382
 vanden Berg, H. J., 25, 363, 364
 Bermingham, E., 38, 229, 230
 Bernard, F. J., 40, 235
 Bernbaum, Ernest, 21, 309, 311, 312, 313
 Berninger, Harriet J., 29, 198, 302, 305
 Bevier, Isabel, 19, 339, 340, 341, 342, 403
 Beyer, O. S., 30, 383, 412
 Biegler, P. S., 23, 306, 308
 Bied, W. G., 13
 Bilik, S. E., 30, 369
 Bilsborrow, J. D., 23, 402
 Birk, J. W., 38, 220, 221
 Bishop, R. C., 402
 Bissell, D. W., 29
 Bixby, Madeline, 416
 Blackwelder, E., 21, 320, 322, 323, 324
 Blair, F. G., 11, 12
 Blair, J. C., 19, 334, 335, 336, 338, 339, 411
 Blaisdell, Daisy L., 25, 324, 325, 326
 Blatt, M. L., 38, 219
 Bloomfield, L., 22, 198, 293, 324, 329
 Blondheim, D. S., 22, 385, 388, 389
 Bode, B. H., 20, 42, 304, 367, 368
 Boelio, L. N., 214, 215
 Bogart, E. L., 29, 184, 296, 298, 299, 301
 Boice, L. A., 15
 Bolan, Anna, 235
 Bole, S. J., 24, 334, 411
 Bollman, M. J., 34
 Bond, Ethel, 25, 35, 344, 346
 Boomsliet, G. P., 24, 356
 Booth, H. T., 30, 198, 371, 375, 376
 Borden, R. F., 29, 348
 Boughton, T. H., 38, 40, 223, 235
 Bower, L. E., 39, 219
 Bowling, B. L., 28, 286, 288, 289
 Boyer, C. V., 24, 198, 309, 310, 313, 316
 Boyle, C. W., 32, 276
 Bracewell, R. S., 31, 294, 410
 Bradbury, C. E., 25, 262, 263
 Braham, J. M., 29, 276
 Brevold, L. L., 30, 309, 313
 Britton, W. E., 27, 271, 273
 Brock, W. S., 26, 334, 411
 Brockson, W. L., 30, 249, 252, 410
 Broderson, H. J., 26, 275, 279, 281
 Brookaw, A. D., 417
 Brooks, Fannie M., 29, 339, 403
 Brooks, I. S., 402
 Brooks, M., 19, 306, 307, 308
 Brooks, N. C., 17, 22, 324, 325, 326, 327
 Brooks, Verna, 26, 198, 202, 378
 Brothers, E. D., 38, 40, 217, 239
 Brown, H. D., 29, 334, 335, 337, 411
 Brown, J. E., 31, 276
 Brown, P. H., 30, 297
 Browne, H. S., 224, 225
 Browne, W. H., 18
 Bruce, W. R., 31
 Brunson, A. M., 409
 Brush, Elizabeth P., 28, 330
 Bryan, Sarah E., 34
 Bryant, W. T., 32
 Buck, A. M., 22, 383, 384, 385
 Bull, Sleeter, 24, 198, 248, 253, 255, 410
 Bunch, Mamie, 26, 339, 403

- Burge, W. E., 20, 33, 376, 377
 Burger, C. V., 27, 258, 259
 Burgess, J. E., 28, 258
 Burke, A. W., 39
 Burmeister, W. H., 37, 223
 Burlison, W. L., 22, 198, 248, 249, 250, 251, 252, 409
 Burrill, T. J., 48, 409
 Burwash, Mary G., 34
 Russell, Nellie E., 28, 370
 Busey, Mary E., 11, 12
 Butterworth, F. W., 13
 Butts, C., 417
 Byford, H. T., 36
- Cady, G. H., 417, 420
 Callen, A. C., 25, 359, 360, 361
 Campbell, W. F., 32, 358
 Cann, Jessie Y., 26, 275, 277
 Canter, H. V., 17, 22, 42, 198, 289, 291, 292, 330
 Capron, H. S., 11
 Carr, R. F., 11, 12
 Carman, A. P., 19, 42, 172, 371, 373, 374, 375
 Carmichael, R. D., 23, 347, 348, 350
 Carmichael, W. J., 26, 253, 254, 256, 410
 Carnahan, D. H., 21, 198, 385, 386, 387, 390
 Carnecross, Helen, 39, 222
 Carpenter, C. E., 23, 343, 344
 Carry, C. S., 28, 198, 385, 386, 389, 390
 Cary, G. F. S., 37, 229
 Case, H. C. M., 29, 402
 Cavanaugh, J. A., 38, 229, 230
 Cigrand, B. J., 38, 220
 Chamberlain, T. C., 417
 Chambers, W. H., 410
 Charlton, E. E., 412
 Chauvet, F., 38, 213, 217
 Checkley, J. H., 28, 248
 Childs, H. F., 30, 309, 313
 Chittenden, E. W., 25, 198, 348, 352
 Christie, J. R., 32, 394
 Clark, A. H., 41
 Clark, C. C., 227, 228
 Clark, C. R., 23, 258, 260, 261, 262
 Clark, E. M., 402
 Clark, T. A., 15, 16, 19, 42, 309, 369
 Clarke, W. A., 39, 228, 229
 Clevenger, C. B., 409
 Coffey, G. N., 23, 402
 Coffey, W. C., 21, 42, 253, 254, 255, 256, 257, 410
 Cohu, J. S., 38, 219
 Colby, A. S., 28, 198, 248, 334
 Cole, A. C., 24, 184, 198, 330, 331, 333, 334
 Colgrove, Vivian G., 34
 Collier, J. S., 402
 Colson, H. W., 41
 Comstock, A. F., 24, 383, 384, 385
 Cook, Dorothy E., 34
 Coolidge, E. D., 40, 237, 239
 Copley, Beatrice V., 29, 309, 313
 Cordell, Della G., 34
 Costa, L. P., 30, 385, 388
 Craig, Jennie A., 34
 Crandall, C. S., 20, 334, 335, 339, 411
 Crane, R., 26, 296
 Crathorne, A. R., 23, 198, 347, 348, 349, 350, 351, 352
 Crawford, R. A., 39
 Creek, H. L., 24, 309, 310, 311, 312, 313, 314
 Crooks, F. R., 38, 217, 218
 Cruzan, Myrtle A., 29, 309, 313
 Culver, H. B., 39, 216
 Cunningham, H. P., 11, 15
 Curl, H. E., 39, 40, 225, 238
 Curl, M. J., 26, 309, 313, 314
 Cushman, R. E., 26, 377, 378, 379
- Dalby, Nora E., 29, 266
 Dale, P. M., 217
 Daniels, A. H., 19, 42, 367, 368
 Davenport, Eugene, 15, 17, 19, 257, 402, 409
 Davenport, G. L., 38, 227
 Davis, D. J., 36, 40, 216, 217, 223, 224, 235
 Davis, H. I., 37, 220
 Davis, J. W., 26, 306, 307
 Davis, R. E., 25, 286, 281
- Davis, T. A., 36, 213
 Davis, W. J., 16, 23, 358
 Davison, C., 36, 227, 228
 Dawson, E. A., 29, 385, 386, 387
 Day, W. B., 18, 41
 Debel, N. H., 27, 330
 Decker, E. H., 20, 42, 343, 344, 419
 DeGarmo, Mary C., 27, 339, 340
 Deist, M. W., 40, 236
 DeLany, C. M., 419
 Demarce, F. H., 402
 Deming, H. G., 25, 275, 277, 284
 Dennis, H. K., 30, 390, 391
 Dent, J. A., 24, 352, 353
 Denton, W. W., 25, 348, 349
 Derrick, C. G., 198, 276, 285
 Detlefsen, J. A., 22, 253, 254, 256, 258, 410
 DeTurk, J. A., 26, 352, 355
 Deveneau, G. A., 35
 Dewey, Kaethe W., 39, 40, 235
 DeWolf, F. W., 417, 420
 Dewsnupp, E. R., 20, 392, 393
 Diamond, I. B., 38, 219
 Dickenson, R. W., 409
 Dickerson, I. W., 24, 249, 250, 251, 252
 Didcoot, J. J., 16
 Dillenback, L. C., 27, 258, 261
 Dittmar, G. W., 40, 236
 Dodge, D. K., 19, 309, 310, 311, 312
 Dorner, H. B., 22, 334, 335, 336, 337, 338, 411
 Douglas, P. H., 27, 297, 299, 300
 Doyle, Katherine, 34
 Dreesen, W. H., 29, 297
 Drennan, J. G., 13
 Dreyer, G. P., 36, 40, 225, 233
 Drury, F. K. W., 14, 17, 34, 345, 346
 DuBois, H. M., 29, 320, 322
 DuFour, E. H., 39
 Duncan, J. M., 28, 198, 347, 352, 355
 Dunlap, H. M., 14
 Dunn, H. H., 383, 412
 Durst, C. E., 24, 334, 335, 411
 D'Vorak, A. C., 39, 40, 225, 238
 Dyas, F. G., 37, 213, 227, 228
- Eastlack, H. E., 28, 276, 279
 Eberhardt, Waldemar, 38, 217
 Ebersol, E. T., 26, 402
 Eckhardt, W. G., 402
 Bekstein, H. C., 30, 253, 410
 Edmonds, J. L., 22, 253, 354, 410
 Eichler, B. L., 41
 Eisendrath, D. N., 36, 227, 228
 Ekblaw, K. J. T., 198, 248
 Eldredge, A. G., 26, 358
 Ellis, C. A., 21, 42, 286, 287, 288, 289
 Ellis, O. I., 409
 Emch, A., 22, 347, 348, 349
 Emmel, V. E., 37, 40, 214, 215, 216, 237
 Enger, M. L., 22, 356, 367
 Engle, E. W., 27, 198, 275, 277, 285
 Engle, R. H., 32, 358
 Englis, D. T., 27, 334, 338, 411
 Ensign, N. E., 24, 198, 356, 357, 358
 Erb, J. L., 17, 21, 198, 363, 366
 Evans, F. N., 24, 334, 335, 336, 337, 338
 Evans, Laura B., 11, 12
 Evans, W. R., 27, 369
 Eycleshymer, A. C., 15, 18, 36, 40, 214, 215, 216, 237
- Fahrnkopf, H. F. T., 28, 409
 Fairlie, J. A., 20, 377, 278, 379, 380
 Fales, E. N., 23, 352, 354
 Falls, F. H., 38, 220, 221, 223
 Fanning, R. S., 26, 258, 259, 260, 261
 Fantus, B., 36, 41, 224, 225
 Fargo, R. N., 26, 198, 368, 369, 370
 Fazal, C. S., 29, 198, 371, 375
 Fehrenkamp, Winifred, 35, 258, 345
 Felsenthal, Emma, 34, 344, 346
 Ferguson, H. F., 416
 Fernsemer, O. F. W., 27, 324, 325, 326
 Filbey, E. J., 15
 Findlay, E. K., 37, 222, 223
 Fischmann, E. W., 38, 222

Fischer, Clement, 39
 Fisher, F. A., 26, 249, 250, 409
 Fisk, I. W., 24, 306, 307
 Fitz-Gerald, J. D., 21, 385, 386, 388, 389
 Flannery, R. E., 39, 227, 228
 Flattery, Amanda M., 34
 Fleming, Georgia E., 26, 198, 339, 340, 341, 342
 Fleming, J. R., 420
 Fleming, V. R., 24, 356
 Flint, W. P., 415
 Flom, G. T., 21, 324, 328, 329
 Fogle, F. E., 403
 Folsom, J. W., 22, 198, 317, 318, 319
 Footitt, F. F., 29, 276
 Forbes, G. R., 27, 262, 263
 Forbes, S. A., 19, 42, 317, 409, 414, 415
 Ford, J. T., 29, 276
 Foss, C. L., 13
 Fox, E. F., 217
 Frank, E., 26, 352, 353, 354
 Frary, H. D., 298, 348, 351, 352
 Fraser, W. J., 19, 294, 295
 Freeman, Marie E., 30, 339
 Freer, Louise, 16, 21, 42, 370
 French, H. E., 32, 276
 Frisk, J. A., 28, 352
 Fritz, H. K., 412
 Fulkerson, Joseph, 14
 Fulton, Edward, 21, 309, 310, 311, 312, 313
 Furby, R. L., 39
 Gafke, A. J., 402
 Gallie, D. M., 40, 235, 236
 Galpin, Stella B., 34
 Gamble, W. E., 36, 222, 223
 Gantz, R. A., 30, 266
 Garner, J. W., 19, 42, 377, 378, 380
 Garver, N. B., 24, 286, 287, 288, 289
 Carraghan, E. F., 39, 229, 230
 Garrett, F. W., 409
 Garrison, N. L., 25, 302, 303
 Gathercoal, E. N., 41
 Gates, Fanny C., 13, 15, 16, 42
 Gatward, W. A., 30, 412
 Gaut, Rosa L., 28, 370
 Gehr, Vera K., 34
 Gehrman, Adolph, 36, 217
 Gentile, G. E., 409
 Cernert, W. B., 24, 249, 251, 409
 Geweke, August, 14
 Gift, L. H., 32, 358
 Gilbert, B., 21, 42, 343, 344
 Gilkerson, H. C., 27, 249, 251, 409
 Gill, H. L., 42, 198, 202, 368, 369
 Gillet, J. E., 24, 198, 293, 324, 329, 387
 Gilmore, I. F., 402
 Glasgow, R. D., 26, 198, 317, 318, 319
 Glenn, P. A., 415
 Glick, E. E., 410
 Glimstedt, O. H., 198, 369
 Glover, Anna C., 409
 Godeke, H. F., 25, 352, 353, 354
 Godlove, I. H., 32, 276
 Goebble, J., 20, 172, 324, 327, 328
 Gonnerman, H. F., 30, 412
 Goodenough, G. A., 20, 42, 352, 353, 355
 Goodkind, M. L., 36, 217, 218
 Goss, W. F. M., 15, 17, 18, 20, 383, 385, 412, 420
 Goulding, P. S., 34, 345
 Graham, A. J., 38, 229
 Grannis, F. C., 402
 Grant, U. S., 417
 Graves, C. E., 34, 345
 Gray, Cora E., 24, 339, 340
 Green, Alexander, 198, 329
 Green, Anne I., 30, 339, 403
 Green, Bessie R., 28, 394
 Green, C. F., 30, 343
 Green, F., 19, 343
 Greene, E. B., 19, 329, 331, 332, 333
 Greene, J. H., 27, 248, 249, 402
 Greenfield, E., 416
 Gregory, Allene, 27, 309, 313
 Gregory, C. V., 14
 Griffin, F. L., 198, 347
 Griffith, C. R., 30, 381

Griffith, L. S., 402
 Grimes, Ruby M., 32, 348
 Grindley, H. S., 19, 253, 254, 257, 273, 280, 284
 410
 Groot, J. T., 225, 238
 Gross, C. R., 30, 265, 266
 Gross, G. A., 26, 352, 355
 Gunderson, A. J., 27, 334, 402, 411
 Gusler, G., 24, 199, 248, 253, 254
 Gustafson, A. F., 23, 249, 250, 409
 Gwynn, W. G., 417
 Habermeyer, G. C., 416
 Hague, Stella M., 26, 266, 267, 268, 269
 Haessler, C. H., 29, 367
 Hale, W. G., 20, 343, 344
 Hall, James, 419
 Halstead, A. E., 36, 227, 228
 Hammond, W. C., 38, 220, 221
 Handschin, W. F., 23, 253, 256, 257, 258, 402, 410
 Hatfield, W. D., 416
 Haw, A. B., 31, 276
 Hayes, E. C., 20, 390, 391, 392
 Harbarger, Sada A., 28, 309, 313, 314
 Harbison, C. C., 30, 310, 315
 Harding, A. A., 25, 363, 366
 Harding, H. A., 20, 42, 172, 294, 295, 296, 410
 Harger, J. R., 37, 227
 Harker, O. A., 19, 42, 343, 344
 Harper, A. C., 27, 352, 353, 354
 Harper, C., 29, 253, 254, 410
 Harper, Julia A., 411
 Harrell, C. L., 28, 352, 353, 354
 Harrington, H. F., 25, 309, 313, 314, 315
 Harris, F. G., 37, 216
 Harris, L. H., 26, 227, 309, 310, 313
 Harrison, Annie E. B., 33, 220, 221
 Harrison, Florence, 24, 339, 341
 Harsha, W. M., 36
 Hart, C. A., 414, 415
 Hartung, A., 38, 220
 Heacock, E. M., 38, 220, 221
 Heaton, E. B., 402
 Hebbert, C. M., 30, 348
 Hecht, A. G., 29, 334, 336, 337, 411
 Hecker, C. H., 199, 276, 285
 Hedgecock, W. E., 402
 Heilbrunn, L. V., 214
 Heintz, E. L., 37, 213, 217, 218
 Hendrixson, W. S., 25
 Hemrotin, Ellen M., 11, 12
 Hepburn, N. W., 22, 294, 295, 410
 Hess, J. H., 36, 213, 219
 Hess, R. W., 28
 Hester, Elizabeth, 34
 Hicks, J. F. G., 30, 276
 Hieronymus, R. E., 25, 249, 270, 273
 Higgins, G. M., 30, 394
 Hill, A. A., 13
 Hill, C. F., 29, 371, 373
 Hillebrand, H. N., 25, 199, 309, 310, 312, 313,
 316
 Hoagland, H. E., 27, 297, 298, 299, 390, 391, 392
 Hoffman, L. G., 39, 222
 Hogue, J. H., 26, 352, 355
 Hoyt, O. W., 11, 12
 Holbrook, E. A., 23, 359, 360, 361
 Holden, Hale, 13
 Hollister, H. A., 16, 19, 42, 302
 Hollister, S. C., 28, 356
 Holt, S. V., 409
 Hoogendijk, G. R., see van Rossen
 Hooper, Gertrude M., 32, 394
 Hope, Leona, 27, 199, 339, 340, 341, 342
 Hopkins, B. S., 24, 42, 199, 275, 277, 280, 283, 285
 Hopkins, C. G., 19, 42, 249, 251, 252, 409
 Hottes, C. F., 20, 266, 267, 268, 269, 270
 Houchens, Josie B., 34
 Howell, L. B., 31, 33, 276
 Huff, G. A., 16, 19, 42, 199, 202, 368, 369
 Hufford, C. T., 410
 Hufford, R. W., 32, 276
 Hughitt, Anna L., 27, 370
 Hulce, R. S., 24, 294, 295, 410
 Humiston, C. E., 37, 227
 Hunter, M. H., 27, 297, 298

- Hunter, W. R., 13
 Hursh, R. K., 23, 274, 275
 Husson, H. L., 32, 358
 Hustvedt, S. O., 27, 309, 310, 313
 Hutchins, Margaret, 35, 345
 Hutchinson, J., 40, 334
 Hyatt, E. G., 224
 Hyslop, W. H., 29, 371

Irish, H. E., 38, 219

Jacobs, C. M., 37, 228, 229
 Jacobs, Jessie M., 32, 348
 Jacobson, Clara, 39
 Jahr, M. E., 25, 249, 250, 251, 252
 James, E. J., 15, 19, 33, 36, 40, 41, 49, 198, 409, 412, 414, 416, 417, 419, 420.
 James, L. V., 24, 306, 307
 Jamison, A. W., 23, 35, 42, 248, 249, 414
 Jewell, M. E., 32, 394
 Jirka, F. J., 39, 217
 Johnson, Alice S., 34, 345
 Johnson, F. T., 23, 363, 364
 Johnson, L. C., 199, 276, 285
 Johnston, C. H., 20, 199, 302, 303, 304, 305, 306
 Jones, E. S., 26, 309, 310, 313
 Jones, H. S. V., 22, 172, 199, 309, 310, 311, 312, 313, 316, 317
 Jones, P. B. V., 24, 330, 331, 333
 Jones, R. R., 24, 199, 202, 368, 369
 Jones, R. T., 24, 258, 259, 260, 262
 Jones, T. S., 39, 214, 215
 Jordan, L., 32, 276
 Jordan, H. H., 24, 296
 Jutton, Emma R., 34, 345

Kamm, O., 27, 33, 275, 278, 280, 284
 Kamm, W. F., 416
 Kammlade, W. G., 29, 253, 254, 410
 Karr, W. G., 29, 33, 276
 Kay, F. H., 25, 320, 323, 417, 420
 Keagy, A. R., 32, 358
 Keitoku, Sakae, 32
 Keith, Mary H., 410
 Kelley, R. L., 16
 Kelso, Ruth, 28, 309, 313
 Kells, L. M., 27, 348
 Kempner, A. J., 24, 348, 351
 Kempton, F. E., 29, 260
 Kennedy, Josephine, 31, 33, 376, 377
 Kennedy, L. E., 29, 320, 321
 Kennedy, R. E., 25, 352, 355
 Kernall, M. J., 32, 394
 Kile, Jessie J., 184
 Kindred, J. E., 30, 394
 King, O. A., 36
 Kingman, R. H., 30, 394
 Kingsley, J. S., 20, 33, 42, 393, 394, 395, 396, 397
 Kinley, David, 15, 17, 19, 172, 296, 301, 419
 Kirkpatrick, S. D., 416
 Kline, E. K., 199, 329
 Knapp, Aurella, 34
 Knight, A. R., 24, 306, 307
 Knipp, C. T., 22, 199, 371, 372, 373, 374, 375, 376
 Kohmann, E. F., 24, 294, 295, 410
 Koller, A. H., 25, 324, 325, 326
 Kraft, J. C., 219
 Krafka, J., 30, 394
 Kramer, M., 214
 Krasa, J. C. M., 39
 Kratz, A. P., 25, 352, 412
 Krejci, E. J., 40, 236, 237, 239
 Kremers, H. C., 29, 276
 Kunz, J., 22, 371, 374, 375
 Kyle, Martha J., 25, 309, 310, 311, 313

Laguardia, C. G. B., 199, 385, 390
 Lake, E. J., 19, 199, 262, 263, 264
 Lamkey, E. M. R., 28, 334, 411
 Landis, P. N., 30, 310, 313
 Landstrom, A. W., 32
 Lang, J. M., 37, 213, 221, 222
 Lanham, E. T., 25, 352, 355
 Lantz, M. P., 14

 Laprade, W. T., 199, 330, 333
 Larson, L. J., 412
 Larson, L. M., 21, 42, 172, 329, 331, 333,
 Lauterbach, E. G., 31, 334, 335, 336, 411
 Layton, W. K., 31, 302
 Leaman, Olga E., 28, 363, 364
 Leatherman, Marion, 35
 LeDeuc, C., 27, 271
 Lee, H. R., 416
 Leighty, W. R., 409
 Lenzer, R., 40, 236
 Leonard, E. F., 37, 219
 Lescher, G. C., 13
 Lessing, O. B., 21, 324, 326, 327, 328
 Leutwiler, O. A., 21, 352, 354, 355
 Levinson, A., 39, 219
 Lewin, Phillip, 39
 Lewis, H. B., 24, 33, 199, 275, 279, 284, 285, 358
 Lewis, J. T., 32
 Lewison, J., 217, 218
 Lewison, Maurice, 37
 Lichtenberger, Cleo, 34
 Lichtenberger, J. P., 199, 390, 392
 Lichner, Mathilda O., 39, 222
 Lindley, W. C., 13
 Lindgren, J. M., 417
 Lindsey, J. R., 32, 358
 Linkins, R. H., 31, 394
 Linsley, C. M., 410
 Littleton, A. C., 27, 271
 Litman, S., 22, 199, 297, 298, 300, 301, 302
 Livingston, A. E., 40, 225, 238
 Lloyd, J. H., 402
 Lloyd, J. W., 20, 334, 338, 411
 Loomis, R. S., 26, 309, 310, 313, 314
 Lopez, M., 31, 385, 388
 Lorch, G. J., 38, 211, 213, 218
 Loring, W. E., 37, 222, 223
 Lowden, F. O., 11, 417
 Lucas, P. H., 31, 264
 Lytle, E. B., 23, 48, 50, 348, 350
 Lybyer, A. H., 21, 42, 330, 331, 332, 333

MacChesney, N. W., 419
 McClure, W. L., 32, 276
 McConn, C. M., 15, 42, 172, 419
 McDewell, H. S., 26, 352, 353, 354
 MacDonald, Effie L., 216
 McDougall, W. B., 26, 266, 267, 268, 269, 270
 McElroy, Mildred, 34
 McEwen, Mary G., 37, 221, 222
 McFarland, D. P., 22, 275, 278, 281, 282, 284
 MacGillivray, A. D., 22, 317, 318, 319, 322
 McGraw, Katherine L., 34
 McGuire, J. C., 235, 239, 240
 MacInnes, D. A., 24, 275, 280, 282, 284
 McJohnston, H., 26, 271, 272, 309, 314
 McKenna, C. M., 37, 229
 McKenzie, Kenneth, 21, 42, 385, 386, 387, 388, 389
 McKinley, J. D., 31, 32, 289, 291
 MacKinnon, Jean G., 27, 199, 339, 340, 342
 McMasters, C. J., 14
 MacMillan, D. K., 415
 McMillen, G. B., 29, 271
 McNealy, R. W., 38
 Malloch, J. R., 415
 Manley, E. J., 25, 369
 Mann, C. J., 402
 Mann, F. I., 14
 Manning, V. H., 420
 Markham, C. H., 13
 Marvel, C. S., 32, 33, 276
 Mason, J. P., 13, 14
 Mathews, J. M., 23, 184, 199, 377, 378, 379, 380
 Mauthe, O. C., 199, 369, 370
 May, H. G., 29, 394
 Mearns, R. W., 16, 21, 358
 Metcalf, W. B., 38
 Mettler, L. H., 36, 219, 220
 Meyer, C. A., 227
 Meyer, K. A., 39
 Meyerovitz, M., 39, 227
 Meyers, Jacob, 39
 Mez, J., 199, 377
 Mickle, F. L., 31, 416

- Miles, L. E., 29, 266
 Miller, G. A., 20, 347, 348, 349, 351
 Miller, H. W., 17, 22, 42, 296
 Miller, J. E., 29, 330
 Miller, W. S., 199, 304, 305
 Mills, Matthew, 38, 217
 Mitchell, H. H., 24, 253, 254, 256, 257, 410
 Mohlman, F. W., 27, 275, 279, 416
 Moodie, R. L., 37, 40, 214, 215, 216, 237
 Moore, C. R., 24
 Moore, E. S., 37, 213, 217, 218
 Moore, F. D., 37, 213, 227, 228
 Moore, H. F., 21, 356, 357, 412
 Moore, J. J., 37, 216, 217, 223
 Moore, O. H., 24, 199, 385, 386, 387, 389, 390
 Moorehead, F. B., 15, 18, 40, 235, 239
 Morey, L., 11, 16, 28, 271, 272
 Morison, A. T., 29, 249, 250, 252, 410
 Morkel, W. A. K., 29, 253
 Morphy, E. W., 25, 363, 365
 Morris, Caroline R., 29, 370
 Morris, R. W., 38, 39, 217
 Morrow, Joseph, 16
 Morton, Isadore, 32
 Mosher, Edna, 27, 317, 319
 Mosher, M. L., 402
 Mosier, J. G., 20, 249, 250, 251, 252, 409
 Moss, C. M., 19, 289, 290, 291
 Mosser, Robert, 37, 217, 218
 Moyers, L. H., 39, 217
 Muehlman, R. E., 27, 258, 259
 Mumford, H. W., 19, 172, 253, 255, 256, 257, 410
 Muncie, F. W., 25, 276, 284, 334, 338, 339, 411
 Murphy, M. E., 31, 297
 Murphy, R. E., 29, 296
 Murray, N. F., 32, 276
 Musselman, J. R., 28, 348, 349
 Myers, F. I., 31, 310, 313
- Nadeau, O. E.**, 38, 227, 228
 Nasmyth, H. D., 26, 363, 364
 Neill, Alma J., 28, 33, 376
 Nelson, R. A., 30, 371, 372, 373
 Nelson, W. O., 32, 358
 Nelson, W. S., 420
 Nevens, W. B., 29, 410
 Newberger, C., 38, 220, 221
 Newburn, Naomi O., 31, 339, 403
 Newell, F. H., 21, 286, 288, 289
 Newlin, C. I., 27, 253, 410
 Newlove, G. H., 31, 271
 Newman, H. P., 36
 Newman, Joseph, 13
 Nicolet, T. W., 28, 334
 Nilsen, P. J., 28, 306, 308
 Nolan, A. W., 22, 42, 199, 248, 249
 Nordmeyer, H. W., 27, 324, 325, 326
 Noyes, F. B., 40, 214, 237
 Noyes, W. A., 20, 33, 275, 277, 279
- Oathout, C. H.**, 402
 Oberdorfer, H. D., 31, 271
 Ochsner, A. J., 36, 227, 228
 Ohlson, P. A., 225, 238
 O'Kelleher, Andrew, 183
 Okey, R. E., 32, 276
 Oldfather, W. A., 21, 172, 199, 289, 290,* 291, 292, 330, 331
 Olewine, J. H., 31, 276
 Oliver, M. S., 39
 Oliver, T. E., 19, 385, 386, 387
 O'Neil, J. P., 39, 229
 Ordenez, B. R., 412
 Ott, P. W., 416
 Outten, G. C., 13
 Ovitz, F. K., 420
 Owens, A. W., 29, 276
- Page, G. T.**, 13
 Paine, E. B., 21, 306, 307, 308
 Palm, F. C., 31, 330
 Palmer, C. E., 27, 258, 261, 262
 Park, J. C., 199, 347
 Parmalee, C. W., 21, 274, 275
- Parr, S. W., 19, 42, 84, 275, 279, 281, 282, 412, 416, 417
 Parry, J. J., 27, 309, 313
 Parsons, Maud E., 24, 339, 340
 Patton, Adah, 34, 345
 Patton, J. M., 36, 217, 218
 Paul, H. G., 22, 42, 199, 309, 310, 311, 312, 313, 316
 Paul, Katherine H., 31
 Peabody, S. H., 47
 Pearce, R. G., 37, 225, 226
 Pearson, F. A., 410
 Pease, A. S., 17, 21, 289
 Pease, T. C., 24, 184, 330, 332
 Pepinsky, B., 412
 Percival, Olive B., 29, 339, 403
 Percy, N. M., 37, 213, 227, 228
 Perrine, W. S., 14
 Perry, Lorinda, 25, 339, 341, 342
 Perry, Margaret C., 32, 276
 Phelps, J. M., 29, 309, 315, 316
 Phelps, V. V., 15
 Phifer, C. H., 38, 227
 Pickels, G. W., 25, 286, 287
 Pickler, W. E., 29, 266
 Pickett, B. S., 22, 334, 336, 338, 339, 402, 411
 Pierce, N. H., 36, 229, 230
 Pike, C. E., 30, 371, 372
 Pomeroy, J. N., 20, 42, 343, 344
 Porter, F. M., 24, 296
 Porter, J. L., 36, 228, 229
 Post, F. W., 16, 358
 Post, G. W., 39, 227, 228
 Powell, A. R., 31, 276
 Powell, B. E., 16
 Powell, P., 31, 385, 386, 388
 Powell, S. G., 32, 276
 Powers, J. H., 32, 358
 Price, Fanny E., 344
 Provine, L. H., 21, 258, 260, 261, 262
 Prucha, M. J., 22, 294, 296, 410
 Puckett, H. W., 27, 199, 329
 Pusey, W. A., 36
 Putnam, W. J., 26, 356, 357
- Quick, R. S.**, 412
 Quine, W. E., 36, 208
- Radebaugh, G. H.**, 26, 352, 355
 Rahn, C., 26, 381, 382
 Rankin, F. H., 17, 22, 42, 248, 249
 Rawlings, H. F., 28, 33
 Rayner, W. H., 25, 286
 Rayson, E. C., 16
 Readhimer, J. E., 402
 Rebman, P. J., 28, 352, 355
 Records, Mary M., 31, 339
 Redenbaugh, H. E., 32, 276
 Reece, E. J., 24, 344, 346
 Reed, C. O., 25, 249, 250, 251
 Reed, F. W., 25, 264, 348
 Reed, J. K., 32, 276
 Rees, E. A., 29, 276
 Remick, Mary E., 31, 260
 Renz, Myrtle A., 34
 Rhode, C. S., 31, 294, 410
 Rhoton, A. L., 199, 302, 305
 Rice, A. C., 13
 Rice, G. S., 420
 Rice, J. B., 29, 253, 254, 410
 Rich, J. L., 25, 320, 321, 322, 324
 Richards, C. R., 20, 42, 352, 353, 354, 355
 Richardson, C. H., 31, 348
 Richardson, R. E., 414
 Richard, F. E., 28, 356
 Ricker, N. C., 19, 258, 260, 261
 Ricketts, Clara A., 34
 Rietz, H. L., 21, 347, 348, 349, 351, 409
 Rinaker, Clarissa, 26, 309, 310, 313
 Rindfus, R. E., 31, 33, 276
 Robbins, E. T., 402
 Roberts, E., 26, 199, 248, 253, 254, 256, 410
 Roberts, E. A., 412
 Roberts, Nellie R., 35
 Robertson, Nellie M., 34
 Robertson, R., 25, 258, 259

- Robertson, W. S., 22, 330, 332
 Robinson, C. M., 21, 334, 338
 Robinson, M. H., 19, 296, 298, 299, 301
 Robinson, R. P., 29, 289, 290, 291
 Rodgers, Eben, 13
 Rogers, Sophie A., 31, 381
 Rohrlach, O. H., 37, 220, 221
 Rolfe, C. W., 19, 320, 321
 Romeiser, A., 29, 369
 Root, R. R., 22, 334, 336, 337, 338
 Ross, C. J., 253
 Ross, C. S., 28, 320, 321, 322
 Ross, J. C., 31, 410
 van Rossen, G., 27, 275, 280
 Rowe, Charles, 13
 Rowland, F. E., 30, 276, 285
 Royer, J. E., 37
 Ruckmich, C. A., 24, 381, 382
 Rudd, W. N., 14
 Rudwin, M. J., 27, 324, 325, 326
 Rudolph, L., 38, 217, 218
 Ruehe, H. A., 24, 294, 295, 402
 Rulison, H. K., 410
 Rumrey, Florence L., 224
 Rusk, E. W., 402
 Rusk, H. F., 23, 253, 255, 257, 410
 Russell, F. A., 27, 273, 297, 298
 Ruth, W. A., 25, 334, 335, 411.
 Rydin, C. J. S., 38, 220
- Sabin, Ethel E.**, 31, 310, 313
 St. Clair, S., 417
 Sale, C. S., 27, 286, 287, 288, 412
 Salisbury, R. D., 417
 Sanford, H. R., 411
 Santee, A. M., 32, 302
 Sarett, L. R., 27, 309, 315
 Savage, T. E., 22, 320, 321, 322, 323, 324, 417
 420
 Savord, Ruth, 34
 Schaefer, P. P., 13
 Schlomovitz, B. H., 39, 40, 237
 Schmidt, E. C., 20, 383, 384, 385
 Schnellbach, J. F., 416
 Schoenberg, A. J., 38, 322
 Schoeppele, Gertrude, 24, 309, 310, 311, 312,
 313
 Schoonover, W. R., 27, 249, 251, 409
 Schrager, V. L., 37, 227, 228
 Schultz, Louis, 40, 235, 239
 Schulz, W. F., 22, 371, 372, 373, 374, 375
 Schwartz, G. F., 22, 363, 365
 Sconce, H. J., 13
 Scott, Edna L., 25, 344
 Scott, F. W., 42, 309, 311, 313, 314, 321
 Scovill, H. T., 26, 199, 270, 271, 272, 274
 Sears, G. W., 26, 199, 275, 277, 285
 Seely, F. B., 25, 199, 356, 357, 358
 Seilin, Joseph, 39
 Sell, E. A., 13
 Seymour, A. R., 16, 23, 385, 388, 389
 Seymour, Lurene, 24, 42, 339, 341
 Shaffner, P. F., 38, 216
 Shaklee, A. O., 37, 224, 225
 Sharp, Bertha L., 34
 Shaw, E. W., 417
 Shaw, Hazel Y., 35
 Shaw, J. B., 22, 347, 348, 349, 350, 351
 Shawl, R. J., 31, 249, 250, 251
 Shelford, V. E., 23, 33, 199, 394, 395, 396, 397,
 414
 Shelton, Wilma L., 34
 Shepherd, Queen L., 26, 42, 367, 368
 Sherman, S. P., 20, 309, 313
 Shewhart, W. A., 30, 371, 372
 Shulters, J. R., 30, 385, 386, 388
 Signor, Nelle, 34
 Simmonds, W. E., 39, 224, 225
 Simpson, Frances, 17, 22, 344, 346
 Singer, N. D., 37
 Sippy, B. O., 39, 40, 239
 Sisam, C. H., 22, 347, 348, 349, 357
 Skewes, Helen, J., 417
 Skinner, G. S., 30, 33, 276
 Slater, M. E., 30, 253, 254, 410
 Slater, W. A., 23, 412
- Slavik, E. F., 39, 222
 Small, J. C., 39, 40, 225, 226, 238
 Smejkal, H. J., 38, 229
 Smith, C. S., 38, 40, 225, 226, 238
 Smith, Florence E., 409
 Smith, Frank, 17, 21, 393, 395, 396, 397
 Smith, G. M., 23, 275, 378, 279, 282, 283, 284,
 Smith, G. S., 417
 Smith, H. E., 14
 Smith, H. I., 420
 Smith, H. J., 13, 28, 309
 Smith, I. M., 15
 Smith, J. E., 23, 286, 287
 Smith, L. H., 20, 249, 251, 252, 409
 Smith, L. M., 415
 Smith, O. M., 32, 276, 416
 Smith, W. C., 38
 Smith, W. H., 25, 253, 402, 410
 Snapp, R. R., 27, 253, 255, 410
 Snider, H. J., 28, 249, 251, 409
 Snodgrass, J. M., 22, 383, 385
 Snow, C. M., 41
 Snyder, Mary J., 414
 Soto, R. A., 29, 385, 388
 Southwell, O. J. T., 28, 258, 261
 Sparks, Marion E., 35
 Sperry, J. A., 25, 33, 260, 265, 266
 Spicer, W. S., 31, 33, 394, 397
 Spooner, C. S., 31, 317
 Squire, E. G., 31, 294
 Stanton, W. M., 27, 258, 259
 Starr, S. P., 40, 236
 Stear, J. R., 31, 317
 Stebbins, J., 21, 264, 265, 348, 349
 Steele, D. A. K., 15, 18, 36, 226, 228
 Steffan, R. C., 38, 220
 Stevens, F. L., 21, 199, 266, 268, 269, 270
 Stevens, J. G., 25, 390, 391
 Stevenson, J. A., 17, 31, 302
 Stewart, C. L., 27, 199, 297, 298, 300, 301
 Stewart, R., 22, 42, 249, 251, 252, 409
 Stipes, J. W., 13
 Stoek, H. H., 20, 42, 359, 360, 361, 420
 Stokes, J. H., 39
 Stofia, L., 224
 Stone, F. L., 39, 222
 Stone, H. K., 385, 386
 Stopp, G. D., 31, 310, 315
 Storey, W. B., 13
 Story, R. M., 26, 377, 378, 379, 380
 Stout, J. E., 199, 302, 305, 306
 Strauch, F. P., 412
 Strauch, H. H., 39, 40, 225, 226, 238
 Strouse, Solomon, 38, 217
 Sutcliffe, E. G., 28, 199, 309, 313, 317
 Swatek, E. P., 40, 235
 Swift, Loia E., 32
 Swift, R. B., 13
 Swinney, E. E., 28, 363
- Taggart, J. E.**, 11, 12
 Talbot, A. N., 19, 172, 356, 357, 362, 416
 Tanabe, S. F., 412
 Tanner, F. W., 28, 33, 265, 266
 Tanner, J. M., 14
 Taylor, N. O., 32
 Taylor, S. C., 28, 276
 Tehon, L. R., 31, 266
 Templin, R. L., 412
 Ten Eyck, A. M., 402
 Theobald, W. H., 39
 Thompson, Alice A., 34
 Thompson, C. M., 23, 42, 199, 297, 298, 300, 301,
 302
 Thompson, D. O., 402
 Thompson, G. F., 37, 227
 Thompson, J. G., 25, 297, 298, 300, 301
 Thorne, L. E., 30, 253, 256, 416
 Thurber, C. N., 30, 309, 313, 314
 Thompson, M. E., 16
 Tice, Frederick, 36, 217, 218
 Tiede, R. E., 199, 316
 Tilton, L. D., 30, 334, 336, 337, 338
 Tippet, R. W., 30
 Titcomb, W. C., 23, 258, 259
 Tolman, R. C., 21, 275, 280, 282, 283, 284

- Tominaga, S., 224
 Torgerson, E. F., 31, 249, 250, 409
 Torrance, Mary, 35, 345
 Towne, L. J., 16
 Townsend, E. J., 19, 42, 172, 200, 347, 348, 349, 350, 352
 Tracy, Grover, 40
 Trelease, W., 20, 266, 267, 269, 269, 270
 Treat, Edna A., 25, 363, 365
 Trevett, J. R., 11, 12
 Trott, C. A., 16, 23, 358
 True, L. J., 30, 294, 410
 Turner, F., 410
 Tuttle, G. P., 15

Uhlendorf, B. A., 28, 324, 325
 Ulich, L. H., 32, 276
 Updegraff, Helen, 32, 276
 Upham, A. H., 200, 316
 Upp, R. W., 40, 236

Vail, H. P., 412
 Vallance, Alex, 200, 357, 358
 Van Alstine, E., 23, 409
 Van Cleave, H. J., 25, 33, 394
 Van Tuyl, F. M., 27, 320, 321
 Van Winkle, W. A., 30, 276
 Vaughan, J. C., 14
 Vaught, Sallie M., 34
 Vernon, J. B., 31, 297
 Voight, E. F., 31, 260, 265
 Vollweiler, E. H., 30, 33, 276
 Voorhees, F. H., 40, 236
 Voorhees, L. E., 371, 373
 Voss, Esther, 223
 Vought, Sabra W., 28, 344, 346
 Vreeland, F. D., 38, 222

Wahlin, G. E., 24, 348, 351
 Wait, Bernice C., 31, 339
 Waldo, E. H., 22, 306, 307, 308
 Walker, Q. F., 30
 Wallace, Cora E., 200, 363, 366
 Walworth, E. H., 28, 249, 252, 409
 Ward, H. B., 20, 33, 42, 172, 393, 394, 396, 397
 Ward, R. R., 11, 12
 Ware, M. B., 32, 358
 Warner, E. H., 28, 200, 371, 375, 376
 Warnock, A. R., 16, 314
 Wascher, F. M. W., 409
 Washburn, E. W., 21, 172, 274, 275
 Waterfall, H. W., 26, 352, 353, 354
 Watson, Florence E., 11, 12
 Watson, F. R., 22, 42, 371, 372, 373, 374, 375
 Weatherson, J., 37, 217, 218
 Weber, H. C. P., 23, 275, 277, 280, 284
 Weedon, Amy, 223
 Weeter, H. M., 28, 410
 Weiland, H. J., 29, 31, 276
 Weirick, R. B., 28, 309, 310, 313, 314
 Weiss, Camillo, 412
 Welch, P. B., 39
 Welker, W. H., 27, 40, 225, 226, 238
 Weller, Stuart, 417

 Wells, C. W., 40, 237
 Wells, L. S., 31, 276
 Wells, N. A., 19, 258, 259, 260
 Welshimer, R. R., 16, 23, 358
 de Werff, H. A., 410
 West, W. B., 38, 222
 Westergaard, H. M., 28, 356
 Westhaefer, T. O., 30, 276
 Weston, Jessie B., 34
 Weston, N. A., 15, 17, 21, 297, 299
 Wetmore, Mary M., 25, 262, 263
 Wheatcroft, J. C., 13
 Wheeler, H. C., 409
 Wheeler, Lucile, 25, 339, 340
 Wheeler, Ruth, 23, 339, 340, 342
 Whipple, G. M., 21, 42, 200, 302, 303, 304, 305, 306
 Whisenand, J. W., 29, 253, 255, 410
 Whitechurch, J. E., 409
 White, E. A., 23, 249, 250, 251, 252
 White, J. M., 16, 19, 258
 Whitford, R. C., 26, 309, 310, 313
 Whiting, A. L., 24, 249, 251, 252, 409
 Whitmer, L. W., 39, 222
 Wichmann, G. C., 30, 381
 Wiebe, H. H., 31, 324, 325
 Wilcox, R. H., 30, 253, 256, 257, 410
 Wiley, C. C., 24, 286, 287, 289
 Willard, A. C., 23, 352, 353, 354
 Williams, Anna W., 26, 339, 340
 Williams, C. A., 25, 324, 325, 326, 327
 Williams, E. H., 24, 200, 371, 372, 373, 374, 375, 376
 Williams, Margaret S., 35
 Williams, W. I., 40, 235
 Williamson, C. S., 36, 217, 218
 Williston, S. W., 40, 214, 237
 Wilson, F. S., 38, 217, 218
 Wilson, L. A., 31, 352, 412
 Wilson, L. T., 27, 348, 349
 Wilson, W. M., 23, 286, 287, 288, 289
 Windsor, P. L., 17, 20, 34, 342, 344, 346
 Winkelmann, H. A., 31, 276
 Wise, L. W., 402
 Wolfe, W. S., 26, 258, 260, 262
 Wood, C. A., 36, 222, 223
 Woodnick, G. W., 39, 222
 Woolbert, C. H., 200, 317
 Woolston, W. J., 222
 Wright, Mabel G., 27, 363, 364
 Wyatt, F. A., 28, 249, 251, 409
 Wyeth, Ola M., 31, 345

Yapp, W. W., 27, 294, 295
 Yarros, Rachelle S., 37, 220, 221
 Yntema, L. F., 32, 276
 Young, C. M., 23, 359, 412, 420
 Young, L. E., 23, 270, 272, 273, 274
 Young, Esther, 30, 266
 Yunker, T. G., 30, 266

Zeitlin, J., 23, 309, 310, 311, 312
 Zeleny, C., 21, 393, 394, 395, 396, 397
 Zimmerman, Albert, 13
 Zupple, R. C., 25, 200, 202, 368, 369

GENERAL INDEX

(For Index of Names, see page 545.)

- Abstracting, course in, 314
- Acacia, 103
- Acanthus, 103
- Accountancy
 - Board of Examiners in, 49, 419
 - University committee, 419
 - courses in, 271
- Accredited schools
 - admission from, 66
 - committee on, 42
 - list of, 75
- Achoth, 103
- Acoustics, course in, 363, 373
- Actuarial theory, course in, 349
- Adelphic Literary Society, 100
- Adams fund, 49
- Administration, 63
 - building, 56
 - council of, 14
 - committees, 42
 - officers of, 14
- Administrative law in the United States, course in, 379
- Admission, 66
 - advanced standing, to, 73
 - certificate, by, 71
 - elective subjects, 68
 - examination, by, 70
 - foreign students, 72
 - special requirements, 73
 - special students, 72
 - subjects accepted for, 82
 - subjects prescribed, 67, 68
 - Summer Session, 200
 - transfer of credits, by, 72
 - units, number required, 69

(See also under separate colleges and subjects)
- Advanced degrees, 176
- Advanced standing,
 - admission to, 73

(See also under separate colleges and subjects)
- Advertising, course in, 272
- Advisory Boards, 12
- Aeronautics, course in, 354
- Agency, course in, 343
- Agricultural analysis, course in, 279
- Agricultural Building, 54
- Agricultural Club, 102
- Agricultural cooperation, course in, 300
- Agricultural economics, course in, 298
- Agricultural Experiment Station
 - advisory boards, 12
 - established, 47, 411
 - staff, 409
- Agricultural extension, 163, 401
 - courses in, 249
 - faculty, 248
 - lectures, 98
 - staff, 402
- Agricultural news writing, course in, 314
- Agricultural scholarships, 105
- Agriculture
 - admission, for, 82
 - courses in, 248
 - economic history of, course in, 300
 - general curriculums in, 166
 - reading room, 59
 - short course in, 171
- Agriculture, College of, 162
 - administrative officers, 17
 - admission, 67, 68, 70, 82
 - to graduate work, 162
- agronomy, 163
- animal husbandry, 164
- buildings, 54
- clubs, 102
- collections, 62
- curriculums offered, 64, 166
 - farm organization and management, 167
 - floriculture, 168
 - general, 166
 - household science, 169
 - landscape gardening, 170
- dairy husbandry, 164
- degrees conferred, 1916, 514, 537
- departments, 163
- extension work, 163
- facilities, 163
- faculty, 248
- fees, 110
- general statement, 162
- graduation, requirements for, 166
- horticulture, 164
- household science, 165
- lectures, 98
- methods, 163
- officers, 17
- reading room, 59
- scholarships, 105
- short courses, 171
- special students, 73
- summary of courses, 64
- Agromony
 - building, 54
 - courses in, 249
 - faculty, 249
 - lectures, 98
- Alcethenai Literary Society, 100
- Algebra, admission, for, 67, 82
 - courses in, 348, 351
- Alpha Chi Omega, 103
- Alpha Chi Rho, 103
- Alpha Chi Sigma, 102
- Alpha Delta Phi, 103
- Alpha Delta Pi, 103
- Alpha Delta Sigma, 102
- Alpha Gamma Rho, 102
- Alpha Kappa Psi, 102, 103
- Alpha Omicron Pi, 103
- Alpha Rho Chi, 102
- Alpha Sigma Phi, 103
- Alpha Tau Omega, 103
- Alpha Xi Delta, 103
- Alpha Zeta, 102
- Alternating current, courses in, 307
- Alumni Associations, 100
 - directory of, 542
- American Academy, prize in architecture, 90
- American Chemical Society, 102
- American diplomacy, course in, 378
- American Institute of Architects medal, 90
- American Institute of Electrical Engineers, 102
- American Institute of Mining Engineers, 102
- American literature, courses in, 310, 313
- American national government, courses in 377, 378
- American railways, fiscal administration of, course in, 393
- American Society of Mechanical Engineers, 102
- Amphitheater clinics, 207
- Analytical chemistry, courses in, 277, 283
- Anatomy,
 - applied and surgical, 216
 - courses in, 214
 - dental, courses in, 237
 - microscopic, course in, 214
 - plant, courses in, 267, 269

- systematic, course in, 215
 topographical, course in, 215
 Ancient history, course in, 331
 Ancient and medieval philosophy, course in, 367
 Anesthetics, course in, 227
 Anglo-Saxon, courses in, 311, 312
 Animal Husbandry
 buildings, 54
 courses in, 253
 faculty, 253
 lectures, 98
 scope of work, 164
 Animal nutrition, courses in, 254, 256, 257, 280, 284
 Apiculture, course in, 319
 Applied Mechanics, Laboratory of, 53, 143
 Appointment
 graduates, committee on, 42
 teachers, committee on, 192
 Archeology and Art, Classical, Museum of, 60
 Architectural Club, 102
 Architectural construction, course in, 260
 Architectural drawing, course in, 261
 Architectural engineering, courses in, 261
 curriculum, 153
 Architecture
 American Academy prize, 90
 American Institute of Architects' Medal, 90
 courses, 258
 curriculum, 152
 domestic, course in, 260
 description of department, 144
 exhibitions, 92
 faculty, 258
 lectures, 97
 Llewellyn prize, 89
 Plym fellowship, 89
 Ricker library, 59
 Scarab prize, 90
 Architecture and sanitation, home, course in, 340
 Argumentation, courses in, 314, 315
 Arkansas Club, 103
 Armory, 57
 Aron collection, 59
 Art collection, 60
 Art exhibit, 92
 Art metal work, course in, 347
 Art and design
 courses, 262
 exhibits, 92
 faculty, 262
 Summer Session, 264
 Arthurian tradition, course in, 311
 Asphalt, tar, and oil residues, course in, 281
 Assaying, course in, 281
 Assistant professors, list of, 21
 Assistants
 list of, 27
 graduate, list of, 30
 military science, in list of, 31
 student, list of, 31
 Associate professors, list of, 20
 Associates, list of, 22
 Associations, societies, and clubs, 100
 Astronomical observatory, 52
 Astronomy
 admission, for, 82
 courses in, 264
 faculty, 264
 Athenian Literary Society, 100
 Athletic coaching, course in, 369
 Athletics, committee on, 42
 Attendance, committee on, 42
 Auditing, committee for student organizations
 and activities, 42
 courses in, 271
 Auditorium, 56
 Automorphic functions, course in, 350
 Authority to confer degrees, 47
 Autopsies, 223
 Auxiliary Scientific Bureaus, 409
 Auxiliary education, course in, 304
 Averages and investment, course in, 349
 Baccalaureate degrees, 1916, 514
 Bachelor's degree, 85
 Bacteriology
 courses in, 265
 dairy, courses in, 295
 dental, courses in, 235
 faculty, 265
 medical, courses in, 223
 Ballads and romances, English, course in, 312
 Band, military, 102, 190
 music, courses in, 366
 Banking
 courses in, 299
 curriculum in, 134
 Bankruptcy, course in, 344
 Barlow-Smith, Constance, collection, 59
 Darnum, M.K., and M.H., gift to collection, 61
 Baseball, course in, 369
 Basketball, course in, 369
 Beef Cattle Building, 54
 courses in, 255
 Belgian literature, course in, 387
 Beneficiary aid, 108
 Benefit fund, hospital, committee on, 42
 Beta Gamma Sigma, 102
 Beta Phi, 103
 Beta Pi, 103
 Beta Theta Pi, 103
 Beta Upsilon, 103
 Better Community Conference, 94
 Bible, literary study of, course in, 310
 Bibliography, courses in, 345, 346
 Bills and notes, course in, 343
 Biology, courses in, 266
 Biology, soil, courses in, 250
 B'nai B'rith prizes, 89
 Board and rooms, 114
 Board of Examiners in Accountancy, 49, 419
 Board of Trustees, 10
 Committees, 11
 officers, 10
 organization, 46
 reorganization, 47
 Boards, advisory, 12
 Bolter, Andreas, gift to collection, 61
 BonDurant lectures, 93
 Bookkeeping, for admission, 82
 Books, number and distribution, 58
 special collections, 59
 Books and printing, history of, course in, 345
 Books, selection of, courses in, 345, 346, 347
 Botanical Club, 102
 Botanical literature, course in, 267
 Botany
 admission, for, 67, 82
 Annex, 52
 courses in, 267
 Summer Session, in, 270
 faculty, 266
 herbarium, 60
 major and minor in, 267
 Breeding, stock, courses in, 248, 254
 Brendel, Dr. F., gift to herbarium, 61
 Bridge design, courses in, 288, 289
 Bridge engineering, course in, 289
 Briefing, course in, 314
 British government, course in, 379
 Browning, course in, 311
 Bryan prize, 89
 Buildings
 Chicago departments, 58
 Urbana departments, 51
 farm, course in, 250
 mechanical equipment of, course in, 353
 sanitation, course in, 262
 Bureau of Mines, United States, staff, 420
 Bushnell Guild, 103
 Business administration
 courses, 272
 curriculum established, 49
 curriculums, 132
 lectures, 96
 Business organization and operation, courses in, 272
 faculty, 270
 Business law
 admission, for, 82

- courses, 273
- faculty, 270
- Business writing, course in, 314
- Calculus**, courses in, 348, 349, 352
- Calendar**, 1916-17-18, 4
 - General, 4
 - University, 5
- Calorimetry of fuels**, course in, 282
- Campus and environs**, maps of, *front insert*
- Carriers**, course in, 343
- Casad, Amanda K.**, collection, 59
- Catalog**, committee on, 42
- Cataloging**, course in, 346
- Cattle Feeding Buildings**, 54, 55
- Celtic**, course in, 313
 - faculty, 309
- Cement**
 - courses in, 275
 - laboratory, 287
- Ceramic bodies**, course in, 274
- Ceramic construction**, course in, 275
- Ceramic engineering**
 - Advisory board, 12
 - Building, 53
 - Club, 102
 - courses in, 274
 - curriculum in, 154
 - description of department, 145
 - faculty, 274
 - kiln house, 53
 - lectures, 97
 - scholarships, 105
 - short course, 401
- Ceramic materials**, 274
- Cercle Francais**, 102
- Certificate**, admission by, 71
- Certified Public Accountant**, examinations for, 419
 - medal, 419
 - problems, course in, 271
- Champaign**, 45
- Change fee**, 110
- Charities**, course in, 391
- Chase, Mrs. Agnes**, gift to herbarium, 61
- Chaucer**, course in, 311
- Cheese making**, course in, 295
- Chemical Club**, 102
- Chemical engineering**, curriculum, 128
- Chemical technology**, course in, 278
- Chemistry**
 - admission, for, 67, 82
 - analytical, courses in, 278
 - courses in, 277
 - dental, 238
 - curriculum, 127
 - faculty, 275
 - history of, course in, 283
 - inorganic, courses in, 277
 - laboratory, 51
 - lectures, 95
 - library, 59
 - major and minor in, 267
 - medical, courses in, 226
 - organic, courses in, 278, 280, 283, 285
 - physical, application to ceramics, course in, 275
 - Summer Session, 285
- Chi Beta**, 103
- Chi Delta**, 103
- Chi Omega**, 103
- Chi Phi**, 103
- Chi Psi**, 103
- Chief English writers**, course in, 310
- Chinese Students' Club**, 103
- Choral and Orchestral Society**, 102
- Christian Associations**, 101
 - lectures, 93
- Chrysanthemum show**, 92
- Circulo Espanol**, El, 102
- City milk supply**, course in, 295
- Civic and commercial secretaries**, curriculum, 133
- Civic design**, course in, 338
- Civics**, admission, for, 82
- Civil engineering**
 - collections, 62
 - courses, 286
 - curriculum, 155
 - equipment, 146
 - faculty, 286
 - lectures, 97
 - railway, curriculum, 159
- Civil Engineering Society**, 102
- Civil War and Reconstruction**, course in, 331
- Class of 1895 loan fund**, 108
- Classical Archeology and Art, Museum of**, 60
- Classical Club**, 102
- Classicism**, rise of, course in, 313
- Classics**
 - collections, 60
 - courses, 290
 - faculty, 289
 - library, 59
 - major and minor, 290
 - Summer Session, 292
- Classification of books**, course in, 346
- Classification and cataloging**, comparative, course in, 346
- Clay wares**, drying and burning of, course in, 274
- Clays**, winning and preparation of, course, 274
- Clinical facilities**, College of Medicine, 207
- Clothing**, courses in, 341
- Clubs and societies**, 100
 - auxiliary to courses of study, 102
 - list of, 102
- Coaching**, summer courses, 202
- Coal Investigations**, cooperative, 420
 - staff, 420
 - composition and classification of, course in, 282
 - geology of, 323
 - plant design, course in, 360
- Coal and ores**, preparation of, course in, 359, 360
- Coccidae**, classification of, course in, 317
- Collections**, 60
 - (See also under separate colleges and courses)
- College assemblies**, lectures before, 91
- College Entrance Examination Board**, 70
- College publications**, collection, 59
- Colleges and Schools**, list of, 16
 - officers, 16
- Colloids**, chemistry and physics of, course in, 283
- Combined courses**
 - arts and law, 122
 - arts and medicine, 125, 204
 - commerce and law, 142
- Comitatus**, 103
- Commerce and Business Administration**, College of, 130
 - administrative officers, 16
 - admission, 69
 - building, 52
 - clubs, 102
 - collections, 62
 - curriculums, 64
 - accountancy, 136
 - banking, 134
 - commerce and law, 142
 - commercial and civic secretaries, 133
 - commercial teachers, 139
 - foreign commerce, 140
 - general business, 132
 - industrial administration, 141
 - insurance, 135
 - railway administration, 137
 - railway transportation, 138
 - fees, 110
 - graduation, new requirements for, 130
 - old requirements for, 131
 - lectures, 96
 - organization and purpose, 130
 - reading room, 59
 - special students, 72
 - summary of courses, 64
- Commercial and civic organization**, course in, 272
- Commercial and civic secretaries**, curriculum for, 148
- Commercial Club**, 102
- Commercial geography** for admission, 82
- Commercial law**, courses, 273
 - faculty, 270
- Commercial teachers**, curriculum for, 139

- Committees
 Board of Trustees, 11
 Council, 42
 Faculty, 42
 Senate, 42
 Common law pleading, course in, 343
 Comparative education, course in, 303
 Comparative languages and literature courses, 293
 faculty, 293
 Comparative philology
 courses, 293
 faculty, 293
 Competitions and honors, 87
 Composition, advanced course in, 314
 Composition, English, admission, for, 67
 Comptroller, office of, 15
 Concerts, orchestral, 92
 Concrete construction, farm, course in, 248
 Concrete, courses in, 288
 Conditions, entrance, not permitted, 67
 Conduction of electricity through gases, course in, 375
 Conferences, 93
 Conflict of laws, course in, 344
 Conservatory, private, course in, 337
 Constitutional law, courses in, 344, 378
 Contemporary politics, problems of, course in, 380
 Contents, table of, 3
 Contests and prizes, military, 90
 Continental European governments, course in, 379
 Contracts, course in, 343
 Contracts and specifications, engineering, course in, 288
 Convocations, 91
 Cooperation, agricultural, course in, 300
 Cormophytes, morphology of, course in, 267
 Corporation in economics evolution, course in, 301
 Corporation management and finance, course in, 299
 Corporations, courses in, 298
 municipal, course in, 344
 private, course in, 344
 Cosmopolitan Club, 103
 Cost accounting, course in, 271
 Council of Administration
 committees, 42
 list, 14
 Counterpoint, canon, and fugue, course in, 363
 Country life problems, course in, 249
 Country newspaper, making of, course in, 315
 Country agricultural advisers, 402
 County scholarships, 104
 Courses, description of, 247
 Creamery management, course in, 294
 Criminal law, course in, 343
 Criminology, course in, 391
 Criticism, literary, course in, 312
 Crop production, course in, 252
 Crops, commercial, course in, 336
 Crystallography, course in, 323
 Cultivated plants, course in, 335
 Culver Club, 103
 Curators, Museums, list of, 16
 Curriculums, 63
 Cytology, course in, 270
- Dairy Barns, 55**
 breeds, course in, 295
 cattle, course in, 294
 chemistry, course in, 296
 farming, course in, 295
- Dairy husbandry**
 advisory board, 12
 courses, 294
 faculty, 294
 scope of work, 164
 Dairy products, course in, 294
 Damages, course in, 343
 Dancing, esthetic and interpretative, courses in, 370
 Deans and Directors, duties of, 63
 Debate, course in, 315
- Debating and oratory, honors and competitions in, 88
 Decoration, home, courses in, 340, 342
- Degrees**
 authority to confer, 47
 bachelor's, 85
 conferred, 1916, 514-528
 first, list of, 86
 graduate, 176
 honor, the, 87
 requirements for
 A. B., 86, 118
 A. E., 179
 A. M., 176
 B. L. S., 86
 B. Mus., 86
 B. S., 86, 127, 152, 166
 C. E., 179
 D. D. S., 86, 234
 E. E., 179
 E. M., 179
 J. D., 86
 LL.B., 86
 M. Arch., 179
 M. D., 86, 211
 M. E., 179
 M. S., 176
 Ph. C., 86, 242
 Ph. D., 179
 Ph. G., 86, 242
- Delta Gamma, 103**
Delta Kappa Epsilon, 103
Delta Sigma Rho, 102
Delta Tau Delta, 103
Delta Upsilon, 103
 Demonstration car, 404, 405
 Dentistry, College of, 232
 administrative officers, 17
 admission, 66, 232
 advanced standing, 233
 building, 58
 courses, 235
 curriculum, 65
 summary of, 239
 degrees conferred, 1916, 524, 537
 discontinued, 50
 established, 49
 faculty, 39
 fees, 112, 240
 graduation, requirements for, 234
 infirmary, 232
 laboratories, 232
 length of course, 234
 library, 232
 license for practise, 234
 location, 232
 method of instruction, 234
 office, 17
 reopened, 50
 students, list of, 508
 text books, 240
- Dentistry, operative, courses in, 236**
 prosthetic, courses in, 238
 laboratories, 232
- Departmental honorary societies, 101**
Departments and courses, summary of, 63
Dermatology, courses in, 216
Description of courses, 259
 explanation of, 259
 Summer Session, 259
- Descriptive geometry, courses, 296**
- Design**
 architectural, course in, 261
 civic, course in, 338
 coal plant, course in, 360
 courses in, 259, 261, 263, 264
 dress, courses in, 341, 342
 electrical, courses in, 307, 308
 engineering, courses in, 354
 garden, courses in, 337
 hydraulic, course in, 362
 landscape, courses in, 336, 337
 locomotive, courses in, 383, 385
 machine, course in, 355
 mill and smelter, courses in, 360
 ore plant, courses in, 360

- planting, 337
- power plant, course in, 354
- Designing and shaping, course in, 275
- Deutsche Verein, 102
- Diagnosis, physical, course in, 218
- Dietetics, courses in, 225, 340
- Diploma fee, 110
- Direct current, courses in, 306, 307
- Directors and Deans, duties of, 63
- Directory of Alumni Associations, 542
- Discipline, committee on, 42
- Diseases, crop, courses in, 268
- plant, courses in, 268
- Dispensary, College of Medicine, 207
- laboratory, 216
- Dittenberger, collection of classics, 59
- Dixie Club, 103
- Doctor of Philosophy, degree of, 179
- degrees conferred, 1916, 527, 537
- Domestic commerce, course in, 300
- Domestic relations, course in, 343
- Domestic Science, admission for, 82
- (See household science.)
- Drainage, courses in, 249, 252
- Drama, English, course in, 311
- German, courses in, 325
- Modern, course in, 312
- Draper, Dr. A. S., President, 48
- Drawing, admission for, 82
- architectural, courses in, 259
- courses in, 263
- freehand, courses in, 258, 259
- general engineering, courses in, 296
- faculty, 296
- Summer Session, 264
- Dress design, courses in, 341, 342
- Dynamics, course, 374
- Dynamics of machinery, course in, 355
- Dziatkzo collection of library economy, 59
- Ear training**, courses in, 363
- Earth history, course in, 322
- Earth and rock excavation, course in, 359
- Easterners Club, 103
- Ecological laboratory, 52
- Ecology, courses in, 270, 395, 396, 397
- plant, course in, 268
- Economic development, Europe, 299
- Economic development, U. S., 301
- Economic resources, course in, 298
- Economic theory, course in, 301
- Economic thought, history of, course in, 301
- Economics**
 - admission for, 82
 - courses in, 297
 - faculty, 296
 - library, 59
 - major and minor in, 297
 - Summer Session, 301
- Eddy lectures, 93
- Editorial practise, courses in, 314, 315
- Education**
 - collection, 60
 - courses in, 302
 - faculty, 302
 - graduate work in, 191
 - lectures, 95
 - library, 59
 - major and minor in, 302
 - principles, courses in, 304
 - rural, course in, 248
 - Summer Session, 304
- Education, School of, 191
 - administrative officers, 16
 - appointment of teachers, committee, 192
 - certification of teachers, 192
 - superintendents and principals, 193
 - curriculum in, 64
 - established, 49
 - general statement, 191
 - office, 16
 - publications, 191
 - summary of curriculum, 65
- Educational administration, problems of, course in, 303
- classics, course in, 303
- policy, committee on, 42
- research, method in, course in, 303
- theory, seminar in, 304
- Egyptian Club, 103
- Eighteenth Century literature, course in, 313
- Elasticity and hydrodynamics, course in, 375
- El Circulo Espanol, 102
- Electric currents and apparatus, course in, 306
- Electric railways, course in, 385
- Electrical Engineering**
 - collection, 62
 - courses, 306
 - curriculum in, 152
 - equipment, 145
 - faculty, 306
 - laboratory, 52
 - courses in, 307, 308
 - lectures, 97
 - railway, course in, 160
 - Society, 102
- Electricity, theoretical, course in, 373
- and magnetism, courses in, 372
- Electrochemistry, courses in, 280, 282, 283
- Electrodynamics, course in, 375
- Electron theory, courses in, 374
- Elementary curriculum, course in, 304
- Elliptic functions, course in, 350
- Embryology, courses in, 214, 215, 395
- dental, course in, 238
- special courses in, 215
- Employees, mine, welfare work and education of, course in, 361
- Engineering**
 - advanced degrees in, 178
 - courses credited in College of Liberal Arts and Sciences, 119
 - library, 59
 - professional degrees conferred, 1916, 527
 - summer reading in, 151
- Engineering, College of, 144
 - administrative officers, 16
 - admission, 66, 70, 73
 - assemblies, 96, 97
 - buildings, 52
 - clubs, 102
 - collections, 62
 - curriculums, 64
 - architectural engineering 144, 153
 - architecture, 144, 153
 - ceramic engineering, 145, 154
 - civil engineering, 146, 155
 - electrical engineering, 146
 - mechanical engineering, 146, 156
 - mechanics, 148
 - mining engineering, 148, 157
 - municipal and sanitary engineering, 149, 159
 - physics, 149
 - railway engineering, 150
 - civil, 159
 - electrical, 160
 - mechanical, 161
 - degrees, 152, 178
 - degrees conferred, 1916, 527, 537
 - departments, 165
 - electives, 151
 - equipment, 150
 - fees, 110
 - general statement, 144
 - graduation requirements, 165
 - inspection trips, 151
 - lectures, 96
 - for freshmen, 151
 - museum, 62
 - office, 16
 - rhetoric prerequisite for junior standing, 152
 - special students, 72
 - summary of courses, 64
- Engineering Experiment Station, 49, 412
 - advisory board, 12
 - established, 49
 - research fellowships, 183
 - staff, 412
- Engineering Hall, 52
- England, history of, courses in, 330, 331, 332, 333

- English,
 courses in, 310, 311
 faculty, 309
 library, 59
 Summer Session, 316
 English composition and rhetoric, admission, for,
 67, 82
 English economic history, course in, 297
 English Journal Club, 102
 English literature, admission for, 67, 82
 English writers, course in, 310
 Entertainments, 93
 Entomologist's Office, State, 415
 established, 49
 faculty, 415
 work of, 415
 Entomology
 building, 52
 collections, 61
 courses, 317
 faculty, 317
 majors and minors, 317
 Summer Session, 319
 Entrance requirements (See admission.)
 Epic, English, course in, 312
 Epidemiology, course in, 266
 Equations and determinants, theory of, course in,
 349
 Equipment, description of, 51
 (See also under separate colleges and subjects.)
 Equity, courses in, 343, 344
 Essay, development of, course in, 312
 Essayists, critical, course in, 311
 Estimates and specifications, course in, 262
 Eta Kappa Nu, 102
 Ethnic, courses in, 367, 368
 Europe, economic history of, 297
 Europe, history of, courses in, 331, 333
 European culture, museum of, 60
 European governments, course in, 379
 Evidence, course in, 343
 Evolution, organic, history of, course in, 321
 Examinations,
 admission by, 70, 73
 College Entrance Board, 70
 entrance, 70
 program of, 74, 75
 New York Regents, 71
 Examiners in Accountancy, Board of, 49, 419
 Exercises and lectures, 91
 Exhibitions, 92
 Exotics, course in, 337
 Expenses, (Urban)
 and fees, 110
 average annual, 114
 Experiment Station
 Agricultural, 47, 409
 Coal investigation, 420
 Engineering, 49, 412
 Exposition, courses in, 313
 Extension, University, 407
 agriculture, 409
 courses in, 249
 ceramics, 401
 cooperative service, 402
 home economics, 403
 Faculty
 committees of, 42
 duties and composition of, 63
 (See officers of instruction.)
 Family, economics of, course in, 341
 social development, course in, 391
 Far East, course in, 332
 Farm
 accounting, 271
 buildings, 258
 crops
 advisory board, 12
 courses in, 248, 250, 252
 Farm House, 102
 Farm management, course in, 258
 mechanics, courses in, 248, 251, 252
 Farm Mechanics Building, 54
 Faunistic zoology, course in, 396, 397
 Federal endowment, 46
 additional, 47
 Feeding, courses in, 248, 255, 257
 Fees
 general, 110
 laboratory, 112
 Fellows, graduate, list of, 529
 Fellowships, 182
 Fertilizers and soils, course in, 252
 Final honors, 87
 Fine arts, history of, courses in, 263, 264
 Fireproof construction, courses in, 262
 First degrees, list of, 86
 Floral exhibit, 92
 Floriculture
 advisory board, 13
 buildings, 55
 courses, 336, 337, 339
 curriculum, 168
 greenhouses, 55
 Folk-lore, course in, 311
 Food, courses in, 339, 342
 Food analysis, course in, 280
 Football, course in, 369
 Foreign commerce, courses in, 300, 301
 railway administration, course in, 393
 Foreign students,
 admission of, 72
 adviser, 15
 Forestry, course in, 335
 Forge work, courses in, 355
 Form, theory of, course in, 260
 Foundry work, courses in, 355
 France, history of, courses in, 331, 334
 Fraternities, Societies, and Clubs, 103
 Freight shipment, course in, 393
 French
 admission, for, 83
 courses in, 386
 educational literature, course in, 304
 major and minor in, 385
 Summer Session, 389
 Freshmen honors, 88
 Freshman-sophomore debate, 88
 Fruit culture, commercial, course in, 336
 Fruit exhibit, 92
 Fuels, calorimetry of, course in, 282
 technology of, course in, 284
 utilization of, course in, 359
 Functions, fundamental, expansions in, course in,
 350
 Funds, loan, 108
 committee on, 42
 Fungi, courses in, 269
 Gamma Alpha, 102
 Gamma Phi Beta, 103
 Garden design, course in, 337
 Gardening, vegetable, course in, 335
 Gas and fuel analysis, course in, 281
 Gas manufacture, course in, 281
 Gas power engineering, course in, 353
 Gases, technology of, course in, 281
 General administrative officers, 14
 General assembly scholarships, 104
 General business course, 132
 General exercises and lectures, 91
 General information, 45
 General organizations, 100
 General University buildings, 51
 Genetics Building, 55
 Genetics, courses in, 256, 258
 Geography
 collection, 61
 commercial, admission, for, 69, 82
 courses in, 321, 322
 faculty, 320
 physical, admission, for, 69, 84
 Geological Journal Club, 102
 Geological Survey, State, 49, 417, 420
 library, 61
 staff, 420
 Geology, admission, for, 83
 collections, 61
 courses, 320

- faculty, 320
- major and minor in, 320
- Geometry
 - admission, for, 67, 83
 - analytical, courses in, 348, 349, 352
 - constructive, course in, 349
 - differential, course in, 351
 - projective, course in, 351
- Germ life and the dairy, course in, 294
- German
 - admission, for, 83
 - collections, 59
 - courses in, 325
 - faculty, 324
 - lectures, 95
 - majors and minors, 324
 - Summer Session, 329
- German educational literature, course in, 303
- Germanics, course in, 324
- Girls' Pan Hellenic Association, 103
- Glass, course in, 275
- Glass blowing, course in, 282
- Glazes, course in, 264
- Glee and Mandolin Club, 102
- Goethe, course in, 325, 327
- Gold Medal, University, 92
- Gothic, course in, 327
- Government, University, 63
- Graduate assistants, list of, 30
- Graduate Club, 184
 - loan fund, 108
- Graduate in pharmacy, degree of, 242
- Graduate School, 172
 - administrative officers, 16
 - admission, 172
 - character of work, 176
 - club, 184
 - degrees conferred, 1916, 525
 - Doctor of Philosophy, degree of, 179
 - established, 48, 50
 - executive faculty, 172
 - fellows and scholars, 1916, 529
 - fellowships, 182
 - history, 172
 - Illinois Historical Survey, 184
 - Marine Biological laboratories, 178
 - Master's degree, 176
 - organization, 172
 - professional degrees in engineering, 179
 - registration, 182
 - research fellowship in Engineering Experiment Station, 183
 - research fellowship in Gaelic, 183
 - scholarships, 182
 - separate faculty organized, 50
 - students, list of, 423
 - summary of courses, 64
 - Summer Session courses, 184
 - theses, 181
- Graduates, appointment of, committee on, 42
- Graduation, requirements for, 85
 - Agriculture, 166
 - Dentistry, 234
 - Law, 205
 - Liberal Arts and Sciences, 118
 - Library Science, 185
 - Medicine, 211
 - Music, 188
 - Pharmacy, 242
- Graduation and first degrees, 85
- Grammar, English, history of, course in, 312
 - modern English, course in, 311
- Graphic statics, courses in, 260, 261, 287
- Graphics, advanced architectural, course in, 261
- Graphomen, 102
- Great Britain, foreign policy, course in, 333
- Greece, history of, course in, 330
- Greek
 - admission, for, 83
 - courses in, 290
 - faculty in, 289
 - major and minor in, 390
- Greek letter societies, 103
- Greek life, courses in, 291
 - literature, courses in, 291
- Greene, D. C., collection, 59
- Greenhouses
 - floriculture, 55
 - horticulture, 55
 - vegetable and plant breeding, 56
- Greenhouse crops, course in, 338
- Gregorian Literary Society, 100
- Gregory, Dr. J. M., Regent, 46
- Grüber collection, 59
- Groups, elementary theory of, courses, 351
- Grounds and buildings, (Urbana) 51
- Gudrun, course in, 328
- Guild, T. H., memorial prize, 89
- Gymnasium
 - men's, 57
 - women's, 57
 - (See physical training.)
- Gymnastics, courses in, 369
- Gynecology, courses in, 222
- Haematology, course in, 215
- Hazleton prize medal, 90
- Health officer, 15
- Heat and power plant, central, 58
- Heat, courses in, 372, 373
- Heat motors, course in, 355
- Heat and Power Plant, 57
- Heating and ventilation, courses in, 353
- Helmet, 103
- Heredity and evolution, course in, 394
- Hertzer collection, 61
- Heyne collection, 59
- H. H. Club, 103
- Hibbard, W. C., gift to museum, 60
- High-school agriculture, principles and methods, course in, 249
- High-school education, courses in, 303
- High-school graduation required, 66
- High School Visitor, 15
- Higher order compounds, course in, 282
- Highway administration, course in, 289
- Histogenesis, courses in, 215, 216
- Histology, courses in, 214, 376, 377
 - dental, course in, 237, 238
 - morbid, courses in, 269
 - plant, course in, 267
 - special courses in, 215
- Historical Club, 333
- Historiography, course in, 333
- History, 46
 - admission, for, 84
 - architectural, course in, 261
 - Club, 102
 - courses in, 330
 - Economic, of the U. S., course in, 298
 - faculty, 329
 - financial, of the U. S., course in, 298
 - library, 59
 - majors and minors, 330
 - Summer session courses in, 333
 - western, Mason library, 60
- Home economics extension, 403
 - staff, 403
 - history of, course in, 341
- Honorary societies, 101
- Honor degree, 88
- Honors
 - debating and oratory, 88
 - final, 87
 - military, list of, 533
- Honors and competitions, 87
- Honors
 - final, 87
 - list of, 88
 - Preliminary, 87
 - special, 87
 - freshmen, 88
- Horse, education and driving of, course in, 255
- Horses, market classes and breeding, courses in, 254
- Horticultural plants, evolution of, course in, 335
- Horticulture
 - advisory board, 13
 - Buildings, 55
 - Club, 102
 - courses in, 334
 - faculty, 334

- greenhouses, 55
 scope of work, 164
 Hospital Clinics, College of Medicine, 207
 Hospital fund, students, 100
 House, courses in, 340
 Household Science Club, 102
 Household Science
 Agriculture, in College of, 169
 courses in, 339
 curriculum in, 169
 extension staff, 339
 faculty, 339
 lectures, 95
 Liberal Arts and Sciences, in College of, 123
 majors and minors, 339
 Summer session courses in, 342
 Human anatomy
 courses in, 397
 faculty, 393
 Hydraulics, courses in, 357
 Hydraulic design and construction, course in, 362
 Hydrodynamics, course in, 375
 Hydro-Economics, courses in, 288
 Hygiene, courses in, 217
 personal, courses in, 369
 school, course in, 303
 Hydrotherapy, course in, 225
 Ibsen's social dramas, course in, 328
 Ice cream making, course in, 294
 Illinois, government of, course in, 378
 Illinois Historical survey, 332
 Illinois, history of, course in, 330
 Illinois Procedure, course in, 344
 Illinois Union, 100
 Illioli Literary Society, 100
 Illumination, course in, 308
 Ihus, 103
 I. M. I. Debating League, 88
 Incidental fee, 110
 Incorporation of the University, 46
 Industrial calculations, course in, 274
 Industrial chemistry, course in, 284
 Industrial consolidation, courses in, 299, 301
 Industrial education, course in, 347
 Industrial organization and management, course in, 273
 Infirmary, College of Dentistry, 232
 Information, general, 43
 Information office, 15
 Inns of the Court, 102
 Inorganic chemistry, courses in, 233
 Insect organogeny, course in, 319
 Inspection trip
 architectural, 260
 architectural engineering, 262
 ceramics, 275
 chemistry, 282
 civil engineering, 289
 mechanical engineering, 355
 municipal and sanitary engineering, 362
 mining engineering, 361
 railway engineering, 334
 Instruction, officers of, 18
 Instructors, list, 24
 Insurance
 courses in, 298
 curriculum, 135
 law, course in, 344
 Interscholastic oratorical prize, 88
 Intercollegiate Peace Association, 88
 Intercollegiate Prohibition Association, 103
 Interfraternity organizations, 103
 International law, course in, 378
 International law during the European war, course in, 380
 Inter-society declamation contest, 88
 Invariants and higher plane curves, course in, 351
 Investments, course in, 301
 Ionian Literary Society, 100
 Iris, 103
 Irrigation and Drainage, course in, 289
 Italian, courses in, 388
 Iyrim, 103
 James, Carl Martin, Collection, 59
 James, Margaret Lange, loan fund, 109
 Jamesonian Literary Society, 100
 Japanese Students Club, 103
 Jewelry, course in, 347
 Journal Club, physiology, 377
 Journal meeting, chemistry, 282
 Journalism, courses in, 314, 315
 curriculum in, 121
 history of, course in, 311
 Jurisprudence, dental, course in, 239
 medical, course in, 217
 principles of, course in, 378
 Kansas Club, 103
 Kappa Alpha Psi, 103
 Kappa Alpha Theta, 103
 Kappa Delta Pi, 103
 Kappa Kappa Gamma, 103
 Kappa Sigma, 103
 Karsten collection, 59
 Keramos, 102
 Komenian Society, 103
 Ku Klux Klan, 103
 Labor problems, course in, 299, 391
 Laboratories, first opened, 47
 Laboratory, advanced methods, 217
 Laboratory fees, 112
 Laboratory, industrial chemical, course in, 280
 Laboratory science, for admission, 67
 Lambda Chi Alpha, 163
 Lambda Epsilon Phi, 103
 Lambkins' Club, 103
 Land Grant, Morrill, 46
 Landscape design, courses in, 336, 337
 lectures, 98
 Landscape Gardeners' Club, 102
 Landscape practise, course in, 337
 Laryngology, course in, 230
 Late registration fee, 110
 Latin
 admission, for, 84
 courses in, 291, 292
 faculty, 291
 majors and minors, 290
 Summer Session
 courses in, 292
 Latin-America, history of, courses in, 332
 Law, College of, 203
 administrative officers, 16
 admission, 66, 203
 to State examination, 205
 advanced standing, 204
 advisory board, 12
 bar examinations, 205
 building, 56
 curriculums, 65, 343
 combined with Liberal Arts and Sciences,
 122, 142, 204
 degree of LL.B., for, 206
 preparatory, 204
 degrees, 205
 conferred, 1916, 523
 entrance requirements, 203
 established, 48
 faculty, 343
 fees, 110
 general statement, 203
 graduation, requirements for, 205
 lectures, 99
 library, 204
 moot court, 204
 privileges of students, 206
 scholarship prizes, 206
 special students, 203
 theses, 205
 Law Library, 59
 Laws, conflict of, course in, 344
 Least squares, method of, course in, 349
 Le Cercle Francais, 102
 Lecturers, list of, 24
 Lectures and general exercises, 91
 Liberal Arts and Sciences, College of,
 administrative officers, 16
 admission, 66-84

- assemblies, 95
- lectures, 95
- arrangement of courses, 120
- bachelor's theses, 85
- buildings, 53
- clubs, 102
- collections, 60
- combined courses
 - arts and engineering, 128
 - arts and law, 122, 204
 - arts and medicine, 125
- curriculums, 64
 - chemical engineering, 128
 - chemistry, 126
 - household science, 123
 - journalism, 121
 - law, preparatory to, 122
 - medicine, preparatory to, 125
- degrees conferred, 1916, 514
- electives, 118
- fees, 110
- graduation, requirements for, 118
- laboratories, 51
- majors and minors, 118
- museums, 60
- organization and purpose, 50, 117
- special students, 117
- summary of courses, 64
- Legislation in the U. S., course in, 379
- Legislation, library, course in, 346
- Lessing, course in, 326
- Libraries, 58
 - (See also under separate colleges and courses.)
- Library administration and current literature, course in, 346
- Library,
 - administrative officers, 16
 - building, 56
 - Club, 102
 - committee on, 42
 - exhibit, 92
 - regulations, 58
 - staff, 33
- Library School, 58, 185
 - administrative officers, 16
 - admission, 70, 73, 185
 - advanced standing, 186
 - collections, 62
 - courses, 344
 - curriculum, 186
 - preliminary, 185
 - degree of B. L. S., 86
 - degrees conferred, 1916, 523
 - entrance requirements, 185
 - faculty, 344
 - fees, 110
 - field work, 186
 - general statement, 185
 - gifts to, 59
 - graduation, requirements for, 187
 - lectures, 98
 - library visits, 186
 - special requirements, 73
 - special students, 186
 - Summer Session, 346, 347
 - transferred to the University, 43
- Libraries, history of, course in, 345
- Library Science,
 - courses in, 344
 - curriculum, 186
 - credited in College of L. A. & S., 120
 - lectures, 344
 - Summer Session, courses in, 346, 347
- Light and Shade, course in, 262
- Light, course in, 372, 373
- Light, photometry, course in, 373
- Lighting, courses in, 308
- Lincoln Hall, 51
- Lincoln League, 103
- Linear differential equations, theory of, course in, 350
- Listener's fee, 110
- Literary Societies, 100
- Literature, English, admission, for, 67, 82
- Literature, comparative, courses in, 293
- Literature, interpretation and dramatization, course in, 316
- Live stock, advisory board, 13
- Live stock experimentation, course in, 257
- Live stock farming, systems of, course in, 256
- Live stock, history of breeds of, course in, 256
- Live stock judging, courses in, 283
- Llewellyn, J. C., prize in architecture, 89
- Loan department, course in, 346
- Loan funds,
 - Class of 1895, 108
 - committee on, 42
 - Graduate Club, 108
 - James, Margaret L., 109
 - McKinley, W. B., 109
 - Snyder, Edw., 108
 - Strong, Henry, 109
 - Woman's League, 108
- Local clubs, list of, 103
- Local flora, course in, 267, 270
- Location of the University, 45
- Locomotive design, courses in, 383, 385
- Locomotive Testing Laboratory, 53
- Logic, course in, 367
- Lunch-room management, course in, 340
- Lyrics and Ballads, German, course in, 325
- McKinley loan fund, 109
- McWhorter collection, 61
- Machine design, course in, 355
- Machine work, courses in, 355
- Machinery, farm power, course in, 250, 251
 - field, course in, 250
 - mechanics of, course in, 353
- Manual training,
 - admission, for, 84
 - faculty, 347
 - Summer session courses in, 347
- Manufactures, dairy, course in, 295
- Marketing farm produce, course in, 298
- Marketing live stock, course in, 257
- Mask and Bauble, 103
- Mason Library of Western History, 60
- Masonry construction, course in, 287
- Massage, course in, 225
- Master of Arts, degree of, 176
- Master of Science, degree of, 176
- Master's degree in engineering, 178
- Masters of Arts and Sciences, degrees conferred, 1916, 525, 526
- Materia medica, course in, 237
- Materials, strength of, course in, 356
- Materials, resistance of, course in, 356, 357
- Mathematical Club, 102
- Mathematical physics, course in, 374
- Mathematics
 - courses in, 348
 - faculty, 347
 - history of, course in, 350
 - library, 59
 - majors and minors, 348
 - prerequisites for admission, 67 (footnote)
 - Summer Session courses in, 351
- Matriculation fee, 110
- Matter, properties of, course in, 372
- Matter, thermodynamics and kinetic theory of, course in, 375
- Ma-Wan-Da, 102
- Measurements, electrical and magnetic, course in, 372
- Meat, courses in, 255
- Mechanical Engineering
 - collections, 62
 - courses in, 353
 - curriculum in, 157
 - equipment, 147
 - faculty, 352
 - laboratory, 53
 - open house, 92
 - railway, curriculum in, 161
- Mechanics, theoretical and applied, courses in, 356
 - faculty, 356
 - Summer Session courses in, 357
- Mechanics, applied, laboratory, 53
- Medical entomology, course in, 317

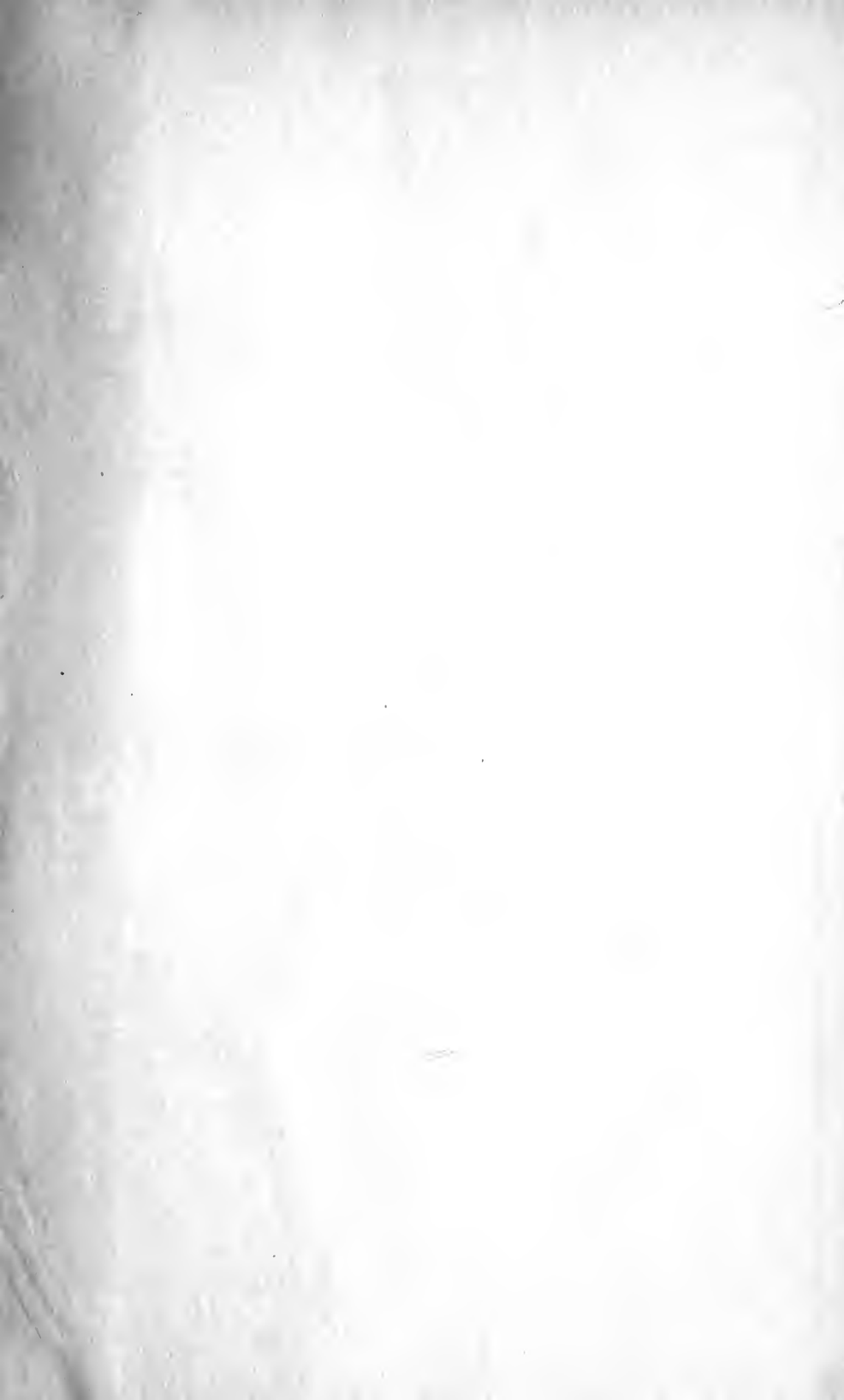
- Medical College, one-year, 197
 administrative officers, 17
 curriculum, 65, 197
 faculty, 32
 Medical illustrating, course in, 215
 Medicine, College of,
 administrative officers, 17
 admission, 208
 advanced standing, 210
 affiliated with the University, 48
 amphitheater clinics, 207
 buildings, 58
 clinical facilities, 207
 collegiate year, 210
 courses in, 211
 combined arts and medical course in, 125
 preparatory, 207
 conditions, 210
 degrees conferred, 1916, 523
 discontinued, 50
 dispensary clinics, 207
 Doctor of Medicine, degree of, 523
 entrance requirements, 209
 equipment, 207
 faculty, 36
 fees and expenses, 111, 210
 general statement, 207
 graduation, requirements for, 211
 hospital clinics, 207
 library, Quine, 208
 location, 207
 microscopes, 211
 optional work, 212
 plan of instruction, 212
 promotion, 212
 registration, 210
 reopened, 50
 scholarships, 211
 senior courses, 216
 sophomore courses, 216
 special students, 210
 students, list of, 506
 summary of hours, 230
 Summer Session, 213
 Medicine, courses in, 214, 218
 Medicine, experimental, courses in, 216
 Medicine, history of, course in, 220
 Medieval civilization, course in, 331
 Medui, 102
 Men, Dean of, office, 15
 Men's Gymnasium, 56
 Men's Pan-Hellenic Council, 103
 Men, physical training for, office, 15
 Mental tests, course in, 304
 Metabolism, problems of, course in, 279
 Metallography, course in, 282, 284
 Metallurgical laboratory, course in, 281
 Metallurgy, courses in, 278
 Metal Shops, 54
 Mercantile distribution, organization and control
 of, course in, 272, 273
 Meteorology, course in, 321
 Microscopes, College of Medicine, 211
 Microscopical technics, course in, 215
 Middle Ages, Literature of, course in, 312
 Midwest debating league, 88
 Military band, 102
 Military contests and prizes, 90
 Military information, division of, 195
 Military honors, list of, 533
 Military Science, 195
 administrative officers, 15
 assistants in, list of, 31
 courses in, 358
 division of military information, 195
 faculty, 358
 scholarships in, 107
 office, 15
 Mill Tax, 50
 Milk production, course in, 295
 Milk testing, course in, 294
 Mill and smelter design, courses in, 360
 Millinery, course in, 342
 Milton, poetry of, course in, 311
 Mineralogy, courses in, 321, 322
 collection, 61
 Mines, examination and valuation of, course in, 360
 Mining engineering,
 collections, 62
 courses in, 359
 curriculum in, 157
 equipment, 148
 faculty, 359
 laboratory, 53
 lectures, 97
 society, 102
 Mining library, 59
 Modeling, course in, 263
 Modern English literature, course in, 313
 Modern languages,
 courses in, 361
 library, 59
 Modern industries, course in, 298
 Modern philosophy, course in, 367
 Money and banking, course in, 297
 Money credit and prices, course in, 301
 Money market, course in, 299
 Morrill Land Grant, 46
 Moot Court, course in, 344
 Morphology, invertebrate, course in, 394
 Morphology, vertebrate, course in, 396, 397
 Mortgages and the recording acts, course in, 344
 Motorcycle Club, 103
 Motors, heat, course in, 355
 Movable schools, 403, 404
 Mules, market classes, course in, 254
 Municipal and sanitary engineering,
 courses in, 362
 curriculum in, 159
 faculty, 362
 method of instruction, 149
 Municipal corporations, course in, 344
 Municipal government, course in, 378
 Municipal problems, course in, 380
 Museums, Curators, 16
 Museums and Collections, 60
 Barnam, M. K., 61
 Bolter, Andreas, 61
 Brendel, Dr. F., 60
 Casad, Amanda K., 59
 Chase, Mrs. Agnes, 61
 Greene, D. C., 59
 Hertzer, 61
 Hibbard, W. G., 60
 James, C. M., 59
 Karsten, Mrs. Eleanor G., 59
 McWhorter, 61
 Philadelphia commercial museum, 62
 Ratterman, Col., 59
 Schenck, Dr. J., 61
 Smith, Constance B., 59
 Stevens, F. L., 61
 Snyder, Mrs. Mary S., 61
 Worthen, A. H., 61
 Worthen, Mrs. A. T., 61
 Music
 admission, for, 84
 degrees conferred, 1916, 537
 established, 48
 faculty, 363
 fees, 110
 general statement, 188
 graduation, requirements for, 188
 military band, 190
 musical organizations, 190
 Summer Session courses, 366
 Music, history of, courses in, 363
 Music, psychological basis of, course in, 382
 Music, School of, 188
 administrative officers, 16
 admission, 66
 Bachelor of Music, degree of, 188
 choral and orchestral societies, 190
 clubs, 102
 courses in, 363
 curriculum, 188
 fees, 110

- public school, 189
- recitals, 99
- subjects prescribed for admission, 67, 68, 70
- summary of curriculums, 64
- Mycology, course in, 270
- Mythology
 - Germanic, course in, 328
 - Norse, course in, 328
- Name of University changed, 47
- Narrative, courses in, 314
- Natural History
 - Hall, 51
 - library, 59
 - museum of, 60
- Natural History, Laboratory of, 414
 - purpose, 414
 - staff, 414
 - transferred to University, 414
- National administration, course in, 379
- Nature of the State, course in, 380
- Nelson fund, 49
- Nervous system, physiology of, course in, 377
- Neurology, course in, 215, 219
- News, collecting and writing of, course in, 314
- Newspaper, course in, 314
- Newspaper problems and policies, course in, 315
- Newspaper publishing, course in, 273
- Nibelungenlied, course in, 328
- Nineteenth century prose writers, course in, 313
- North-Central Association, 193
- Northern Oratorical League, 80
- Norwegian, courses in, 328
- Numbers, theory of, course in, 351
- Nursery methods, course in, 335
- Nutrition
 - animal, courses in, 254, 256, 257, 280, 284
 - infant, course in, 340
 - physiology of, course in, 377
 - plant, chemistry of, course in, 284, 399
- Observatory, astronomical, 52
- Obstetrics, courses in, 221
- Offices, administrative, 14
- Officers of instruction, 18
- Oil and gas, geology, course in, 323
- Oil painting, courses in, 263
- Oil residues, course in, 281
- Olericulture, course in, 338
- Omicron Nu, 102
- Ophthalmology, courses in, 222
- Oral surgery, courses in, 235
- Orators and oratory, course in, 315
- Oratorical Association, 102
- Orcharding, course in, 335
- Orchestra, courses in, 366
- Orchestral Concerts, 92
- Order, accession, and shelf work, courses in, 346, 347
- Order of the Coif, 102
- Ore deposition, course in, 323
- Ore plant design, courses in, 360
- Organ, courses in, 366
- Organic chemistry, courses in, 203, 278, 279
- Organic chain, courses in, 283
- Organizations, general, 100
- Organizations and publications, student, auditing committee on, 42
- Organizations and activities, student, committee on, 42
- Organogeny, vertebrate, course in, 395
- Ornithology, courses in, 395
- Orthodontia, course in, 237
- Otology, courses in, 230
- Painting, courses in, 263
- Paleontology
 - collection, 61
 - course in, 323
 - faculty, 320
- Pan Hellenic Association, 103
- Pan Hellenic Council, 103
- Parasitology, course in, 396
- Partnership, course in, 344
- Pathology,
 - courses in, 223, 235
 - clinical, course in, 216
 - plant, course in, 268, 270
- Pattern work, course in, 355
- Pedagogy, Aron collection, 59
- Pediatrics, courses in, 219
- Pen and Brush Club, 102
- Personal property, course in, 343
- Persuasion, course in, 315
- Petrography
 - courses in, 322, 323
- Petrology, course in, 321
- Pharmacy, School of, 241
 - administrative officers, 18
 - admission, 66, 242
 - advisory board, 12
 - building, 58, 241
 - curriculums in, 65, 242
 - degrees, 242
 - conferred, 1916, 524
 - entrance requirements, 242
 - equipment, 241
 - expenses, 243
 - faculty, 41
 - fees, 112, 243
 - founded, 48
 - graduation, requirements for, 242
 - history, 241
 - location, 241
 - registration, state, 243
 - students, list of, 511
- Pharmaceutical Chemist, degree of, 242
- Pharmacodynamics, courses in, 225
- Pharmacology, courses in, 224
- Phase rule, course in, 286
- Phi Alpha Delta, 102
- Phi Beta Kappa, 101
 - prize, 101
- Phi Delta Phi, 102
- Phi Delta Psi, 102, 103
- Phi Delta Theta, 103
- Phi Eta, 103
- Phi Gamma Delta, 103
- Phi Kappa, 103
- Phi Kappa Psi, 103
- Phi Kappa Sigma, 103
- Phi Lambda Upsilon, 102
- Phi Sigma Kappa, 103
- Philadelphia Commercial Museum, gifts to collection, 62
- Philological Club, 102
- Philology, comparative
 - courses in, 293
- Philomathean Literary Society, 100
- Philosophers, British
 - course in, 368
- Philosophy
 - courses in, 367
 - faculty, 367
 - library, 59
 - majors and minors, 367
- Phonology and morphology, Old French,
 - course in, 389
- Photography
 - course in, 368
 - faculty, 368
- Phylogeny, animal, theories of,
 - course in, 397
- Physical chemistry, courses in, 280, 281, 282, 283
- Physical geography, 84
 - admission, for, 69, 84
 - courses in, 321
- Physical training
 - for men
 - courses in, 369
 - faculty, 369
 - for women
 - courses in, 370
 - faculty, 370
 - officers, 15
 - scope of work, 196
 - Summer session, courses in, 369, 370
- Physics
 - admission, for, 67, 84
 - Colloquium, 102
 - courses in, 250, 371
 - faculty, 371

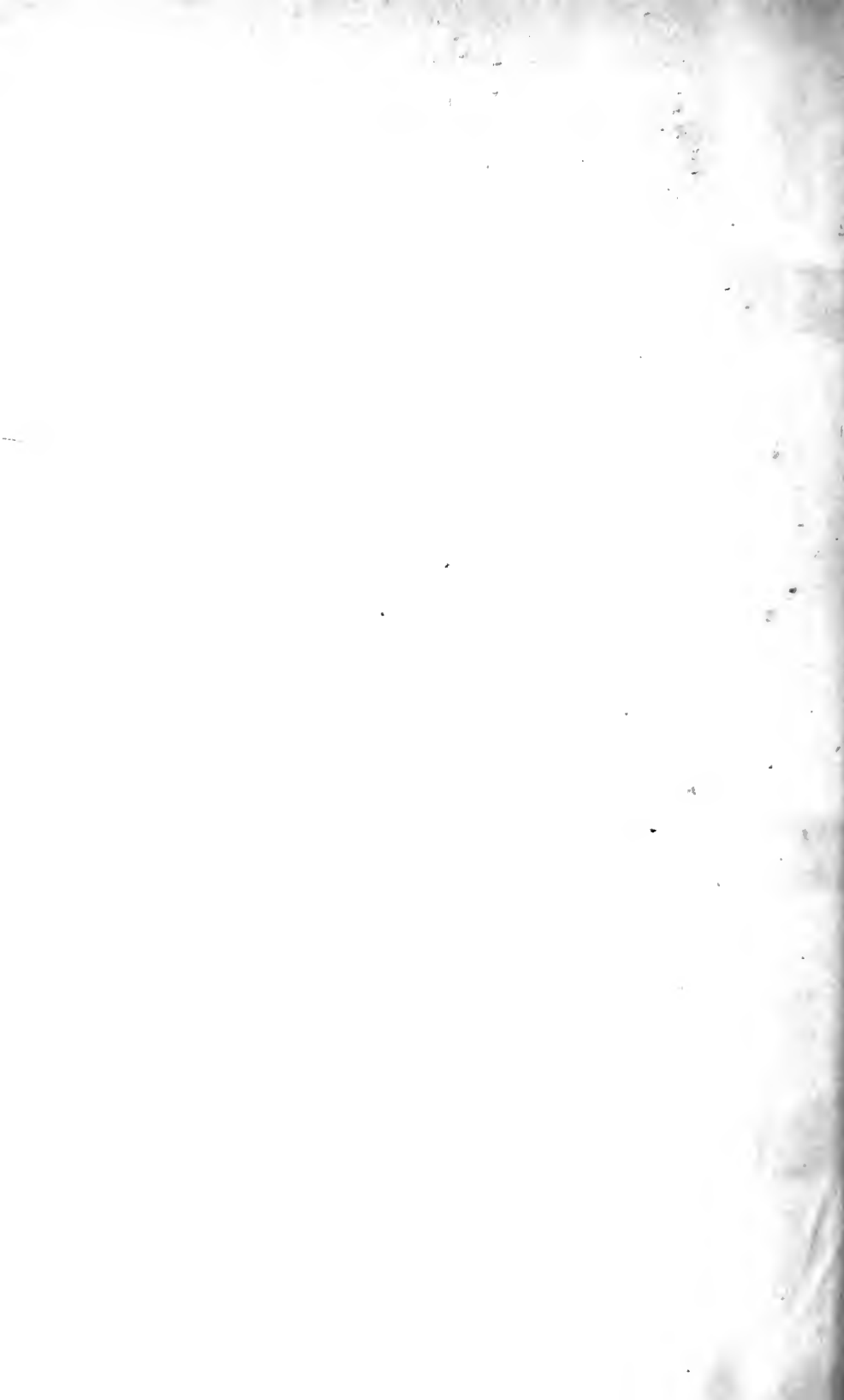
- laboratory, 51
- library, 59
- majors and minors, 371
- Summer Session, courses in, 375
- Physiography, courses in, 321, 322, 323
(See also physical geography.)
- Physiological chemistry, courses in, 279, 284
- medical, 226
- Physiological psychology, course in, 382
- Physiology,
 - admission, for, 67, 84
 - courses in, 376
 - dental, courses in, 238
 - faculty, 376
 - medical, courses in, 225, 226
 - plant, courses in, 268, 269, 270
- Piano, courses in, 364
- Pi Beta Phi, 103
- Pi Tau Sigma, 102
- Plane geometry, admission, for, 67, 83
- Plant breeding, courses in, 251, 252
- Plant breeding and vegetable greenhouses, 56
- Plant growing, course in, 336
- Plant houses, course in, 335
- Plant propagation, course in, 335
- Plym Fellowship in architecture, 89
- Political parties and methods, course in, 379
- Political Science Club, 102
- Political science
 - courses in, 377
 - faculty, 377
 - library, 59
 - majors and minors, 377
 - Summer session, courses in, 380
- Political theories, history of, course in, 380
- Pomology, course in, 337, 338, 339
- Population, course in, 391
- Portrait in oil colors, courses in, 263
- Portuguese, course in, 388
- Poultry, courses in, 255
- Power measurement, courses in, 354
- Power Plant, 57
- Power plant design, course in, 354
- Power transmission, course in, 354
- Practitioners' course in dentistry, 239
- Pragmatism, philosophy of, course in, 368
- President's House, 57
- President
 - Draper, Dr. A. S., 48
 - duties of, 63
 - elected, 49
 - House of the, 57
 - office of the, 14
 - (See James, Edmund J., Index of Names.)
- President's office, 14
- Primary and election problems, course in, 399
- Printing, binding, and indexing, course in, 346
- Prizes
 - Architecture, in, 89
 - B'nai B'rith, 89
 - Bryan, 89
 - Guild memorial, 89
 - Intercollegiate-Peace Association, 88
 - Interscholastic oratorical, 88
 - Law, 206
 - Llewellyn, J. C., 89
 - Military, 90
 - Northern Oratorical League, 88
 - Phi Beta Kappa, 101
 - Plym, F. J., 89
 - St. Patrick's Day, 89, 536
- Professional degrees in engineering, 179
- Professional societies, 102
- Progress, student's, committee on, 42
- Property, future interests in, course in, 344
- Prosthetic dentistry, courses in, 236
- Protective coverings for wood and metals, course in, 281
- Psi Delta, 103
- Psi Mu, 102
- Psi Upsilon, 103
- Psychiatry, courses in, 220
- Psychology
 - courses in, 381
 - educational, courses in, 303, 304, 306
- faculty, 381
- laboratories, 381
- library, 59
- majors and minors, 381
- Summer Session, courses in, 304
- Public accounting, course in, 272
- Public address, course in, 315
- Public administration, course in, 380
- Public documents, course in, 345
- Public finance, course in, 299, 301
- Public international law, course in, 314
- Public School Art exhibit, 92
- Public school music, course in, 363
- Public speaking,
 - courses in, 315
 - faculty, 309
- Summer Session, courses in, 317
- Public utilities, law, course in, 344
- Pumping Station, 58
- Quasi-Contracts, course in, 344
- Qualitative analysis, courses in, 277, 280
- Quantitative analysis, courses in, 278, 279, 280, 283
- Quine Library of Medicine, 208
- Radiography, course in, 239
- Railway Club, 102
- Railway connections, 45
- Railway construction and maintenance
 - course in, 393
- Railway engineering
 - collections, 62
 - courses in, 383
 - curriculum, civil, 159
 - electrical, 160
 - established, 49
 - equipment, 150
 - faculty, 383
 - general statement, 147
 - library, 59
 - mechanical, 161
- Railway Engineering and Administration, School of, 194
 - courses in, 383
 - general statement, 194
 - office, 17
 - summary of curriculums, 65
- Railway industries, advisory board, 12
- Railway operation, standards of, course in, 393
- Railway organization, course in, 393
- Railway rate policy, course in, 393
- Railway terminal management, course in, 393
- Railway traffic administration, course in, 393
- Railway train service, course in, 393
- Rationalism and religion, course in, 368
- Rattermann collection, 59
- Rea scholarships, 211
- Reading, summer, College of Engineering, 151
- Real property, course in, 343
- Reference work, courses in, 345, 357
- Regent
 - acting, Dr. T. J., Burrill, 48
 - Gregory, Dr. J. M., 46
 - Peabody, Dr. S. H., 47
- Registrar's office, 14
- Registration
 - College of Medicine, 210
 - Summer Session, 200
- Reinforced concrete, courses in, 288, 357
- Religious lectures, 93
- Religion, philosophy of, course in, 368
- Renaissance and the Reformation, course in, 331
- Research fellowships,
 - Engineering Experiment Station, 183
- Rhetoric
 - admission, for, 67, 82
 - courses in, 313
 - faculty, 309
 - special examination in, 72
 - Summer Session, courses in, 316
- Rhinology, courses in, 230
- Ricker library of architecture, 59
- Road construction, courses in, 289
- Road laboratory, 146
- Road Materials laboratory, 53

- Roads and Pavements, courses in, 287
 Roentgenology, course in, 220
 Roman life, courses in, 291
 Roman literature, courses in, 291
 Romance Journal Club, 102
 Romance languages, courses in, 386
 Grober collection, 59
 faculty, 385
 majors and minors, 386
 Romance philology, courses in, 389
 Romanticism, French, course in, 387
 Romantic movement, course in, 313
 Rome, history of, course in, 330
 Roofs, course in, 260
 Rooms and board, 114
 Rural community, social problems of, course in, 391
 Rural credit, course in, 300
 Rural improvement, course in, 335
- Sachem, 102**
 Sales, course in, 343
 Salesmanship, course in, 272
 Sanitation building, course in, 260, 261
 Sanitation, general, course in, 362
 Sanskrit, courses in, 293
 Scabbard and Blade, 102
 Scandinavian Club, 102
 courses in, 328
 faculty, 324
 Scarab, 102
 Scarab Medal in Architecture, 90
 Schenck, Dr. J., gift to herbarium, 61
 Scholars, graduate, list of, 529
 Scholarships
 agricultural, 105
 ceramics, 105
 county, 104
 general assembly, 104
 graduate, 182
 household science, 105
 law, 206
 medicine, 206
 military, 107
 Rea, 211
 Ryerson and Son, 107
 Smith, 106
 Summer Session, 201
 Undergraduate, 104
 College of Medicine, 211
 Schools, accredited
 admission from, 66, 70
 committee on, 42
 list of, 75
 School for house keepers, 403
 addresses before, 93
 Schools, offices, 16
 School Reports collection, 59
 Schiller, courses in, 325, 327
 Science, for admission, 67
 Science, College of, (See Liberal Arts and Sciences, College of.)
 Science, domestic, admission, for, 69, 82
 Science group, museums and collections, 60
 Scientific Bureaus, 409
 Scientific management, course in, 273
 Scribblers Club, 103
 Secondary education, seminar in, 304
 Sedimentation, 324
 Seminar in Civil Engineering, 287
 Seminar libraries, 59
 Senate, University, 18
 committees of, 42
 composition and duties, 63
 Sewanee Circle, 103
 Sewerage, courses in, 362
 Shakespeare, course in, 310, 311
 Sheep Barn, 55
 Sheep breeding, course in, 254
 Sheep husbandry, course in, 256
 Shomeez, 103
 Shop management, course in, 271
 Short courses, 93
 Sight singing, courses in, 363
 Sigma Alpha Epsilon, 103
 Sigma Chi, 103
 Sigma Delta Chi, 102
 Sigma Delta Theta, 103
 Sigma Kappa, 103
 Sigma Mu Rho, 102
 Sigma Nu, 103
 Sigma Pi, 103
 Sigma Tau, 102
 Sigma Xi, 102
 Sketching, course in, 203
 Skin, pathology and bacteriology of, course in, 216
 Small fruits and grapes, course in, 334
 Smith-Lever act, 403
 Snyder, Edward, loan fund, 108
 Snyder, Mrs. Mary S., gift to herbarium, 61
 Social education, course in, 303
 Social evolution, course in, 391
 Social and industrial problems, course in, 379
 Social psychology, course in, 382
 Social sciences, courses in, 297, 330, 377, 390
 Social theory, basis of, course in, 391
 Socialism, course in, 390
 Socialism and economic reform, course in, 390
 Socialism and social reform, course in, 392
 Societies and clubs, 100
 Societies
 departmental, 102
 Greek letter, 103
 honorary, 101, 102
 literary, 100
 Sociology,
 courses in, 390
 faculty, 390
 library, 59
 majors and minors, 390
 Summer Session, courses in, 392
 Soils, advisory board, 13
 Soil fertility, courses in, 251
 Solid geometry, admission, for, 68, 83
 Sororities, list of, 103
 Sound, course in, 372, 375
 Spanish,
 courses in, 388
 for entrance, 84
 Summer session, courses in, 390
 Special examination, fee, 110
 Special students, 72
 admission, 210
 Specifications, course in, 260
 Spencer, course in, 312
 Spherical geometry, admission, for, 68, 83
 Spraying, course in, 335
 Standing committees of the faculty, 42
 Star course, 103
 State administration in the United States, course in, 379
 State Entomologist, office of, 49, 415
 State Geological Survey, 49, 417
 State Laboratory of Natural History, 47, 414
 State Water Survey, 48, 416
 State registration in pharmacy, 243
 State Government and administration, course in, 380
 State and local government, course in, 377
 State stratigraphy, course in, 322
 Stations, experiment, 409
 Statistics, courses in, 298, 351
 Statistics, social, course in, 391
 Steam and air machinery, course in, 353
 Steam engineering, courses in, 353
 Steel building construction, course in, 289
 Steel building design, course in, 288
 Still life in oil colors, courses in, 263
 Stock judging, courses in, 254, 255
 Stock Pavilion, 55
 Strong, Henry, loan fund, 109
 Structural details, course in, 287
 Structural stresses, courses in, 287
 Student assistants, list, 31
 Student Council, 100, 103
 Student organizations and activities, committee on, 42
 Students, list of, 423
 Students, foreign, admission of, 72

- Students' societies, 100
 St. Patrick's Day prize, 89, 536
 Subjects accepted for admission, 82
 Summaries
 degrees, 537
 officers, 538, 539
 students, 540, 541
 Summarizing and briefing, course in, 314
 Summer reading, College of Engineering, 151
 Summer Session, 195
 administrative officers, 17
 admission, 200
 convocation, 97
 courses (See also under description of courses.)
 65
 director, 17
 entertainments, 111
 College of medicine, 213
 faculty, 198
 fees, 200
 first, 48
 general statement, 200
 graduate work, 201
 lectures, 99
 library training, 201
 playground work and coaching, 202
 purpose, 200
 registration, 200
 scholarships, 201
 summary of courses, 65
 Supervising Architect, 15
 Supervision, theory of, course in, 304
 Suretyship, course in, 344
 Surfaces, algebraic, course in, 351
 Surgery, courses in, 227
 Surgery, clinical, courses in, 228
 Surgery, genito-urinary, courses in, 229
 Surgery, operative, course in, 227
 Surgery, oral, courses in, 235
 Surgery, orthopedic, courses in, 229
 Surveying, courses in, 286, 287
 Surveying, mine, courses in, 360
 Swedish, courses in, 328
 Swimming, course in, 370
 Swine husbandry, courses in, 254, 256
 Syphilis, course in, 216
 Syntax, historical prose, course in, 312
 Systematic psychology, course in, 382
- Tau Beta Pi**, 102
Tau Kappa Epsilon, 103
 Tar, course in, 281
 Tax, mill, 50
 Taxonomy, courses in, 267, 268, 270, 317, 318
 Teachers, appointment of, committee on, 42, 192
 Techniques of teaching, course in, 302
 Telegraphy and telephony, course in, 308
 Theoretical and applied mechanics
 courses in, 356
 faculty, 356
 Summer Session, 357
 Therapeutics, courses in, 224, 233, 237
 Thermodynamics, courses in, 353, 355
 Thesis collection, 59
 requirements, 85
 Textiles and clothing, courses in, 341, 342
 Thallophytes, morphology of, course in, 267
 Theta Chi, 103
 Theta Delta Chi, 103
 Topography, mine, course in, 361
 Torts, course in, 343
 Town improvement, course in, 335
 Track and field athletic coaching, course in, 369
 Training, athletic, course in, 369
 Transfer of credits, admission by, 73
 Transportation Building, 54
 Transportation, railway, courses in, 392
 Transportation, faculty, 392
 Trees and shrubs, courses in, 336, 338
 Trees and shrubs of the campus, course in, 268
 Triangle, 102
 Tribe of Illini, 102
 Trigonometry
 for admission, 84
 course, 348, 349, 352
 Summer session, 352
- Trustees,
 Board of, 10
 committees, 11
 officers, 10
 reorganizations of, 47
 Trusts, course in, 343
 Tuition fee, 110
U. L. A. S., 102
 Undergraduate
 degrees, 1916, 514
 scholarships, 104
 Undergraduates and professional students, list
 of, 438
 Unit, definition of, 67
 United States, financial history of, 298
 United States, history of, courses in, 330, 331, 333
 United States industry, courses in, 300
 University bronze medals, 90
 University collection, 59
 extension, 401
 gold medal, 90
 University Hall, 51
 Urbana, 45
- Vahlen collection**, 59
 Variable, complex, functions of, course in, 350
 Variables, real, functions of, course in, 350
 Variations, calculus of, course in, 350
 Vector methods, course in, 351
 Vegetable exhibit, 92
 Vegetable and plant breeding greenhouses, 56
 Vegetables under glass, course in, 337
 Ventilation, courses in, 353
 Ventilation, mine, course in, 359
 Versification, English, course in, 311
 Vertebrates, morphology of, course in, 396
 Vice-President's office, 14
 Victorian period, literature of, course in, 311
 Violin, courses in, 365
 Violoncello, courses in, 365
 Vivarium, 52
 Vocational education, course in, 304
 Voice, courses in, 364
- Walther von der Vogelweide**, course in, 328
 Water chemistry, courses in, 279
 Water color painting, course in, 263
 Water supply engineering, courses in, 362
 Water supplies, course in, 284
 Water survey, state
 established, 416
 faculty, 416
 work of, 416
 Weaving, course in, 341
 West, exploration and colonization of, course in,
 331
 Western history, Mason, library, 60
 Wills, course in, 344
 Woodworking, courses in, 347
 Woman's Building, 57
 Woman's League, 100
 Woman's League Loan Fund, 108
 Women first admitted, 47
 Women, Dean of, office, 15
 Women, physical training for, office, 15
 Wood shop, 54
 Woodworking, courses in, 347
 Working drawings, courses in, 259, 261
 Worthen, A. H., gift to collection, 61
 Worthen, Mrs. T. A., gift to museum, 61
- Yo Ma**, 103
 Young Men's Christian Association, 101
 lectures, 93
 Young Woman's Christian Association, 101
 lectures, 93
- Zeta Beta Tau**, 103
Zeta Psi, 103
 Zoological Club, 102
 Zoology,
 admission, for, 67, 84
 collections, 61
 courses in, 394
 faculty, 393
 majors and minors, 394
 Summer Session, courses in, 397









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